Pioneer

AUDIO/VIDEO
MULTI-CHANNEL RECEIVER

VSX-859RDS
VSX-859RDS-G
VSX-839RDS

Operating Instructions

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code :

Blue : Neutral
Brown : Live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor or the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows :
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three - pin plug.

NOTE
After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost replacement fuse covers can be obtained from: your dealer.
Only 5 A fuses approved by B.S.I. or A.S.T.A. to B.S. 1362 should be used.

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

Power cord CAUTION!

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

[For European model]

If the socket outlets on the associated equipment are not suitable for the plug supplied with the product the plug must be removed and appropriate one fitted.
The cut-off plug must be disposed of as an electrical shock hazard could exist if connected to a socket outlet.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This product complies with the Low Voltage Directive (73/23/EEC, amended by 93/68/EEC), EMC Directives (89/336/EEC, amended by 92/31/EEC and 93/68/EEC).

THE ▮ OFF ▂ ON BUTTON IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

Maintenance of External Surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleansers.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

Quick Start Guide

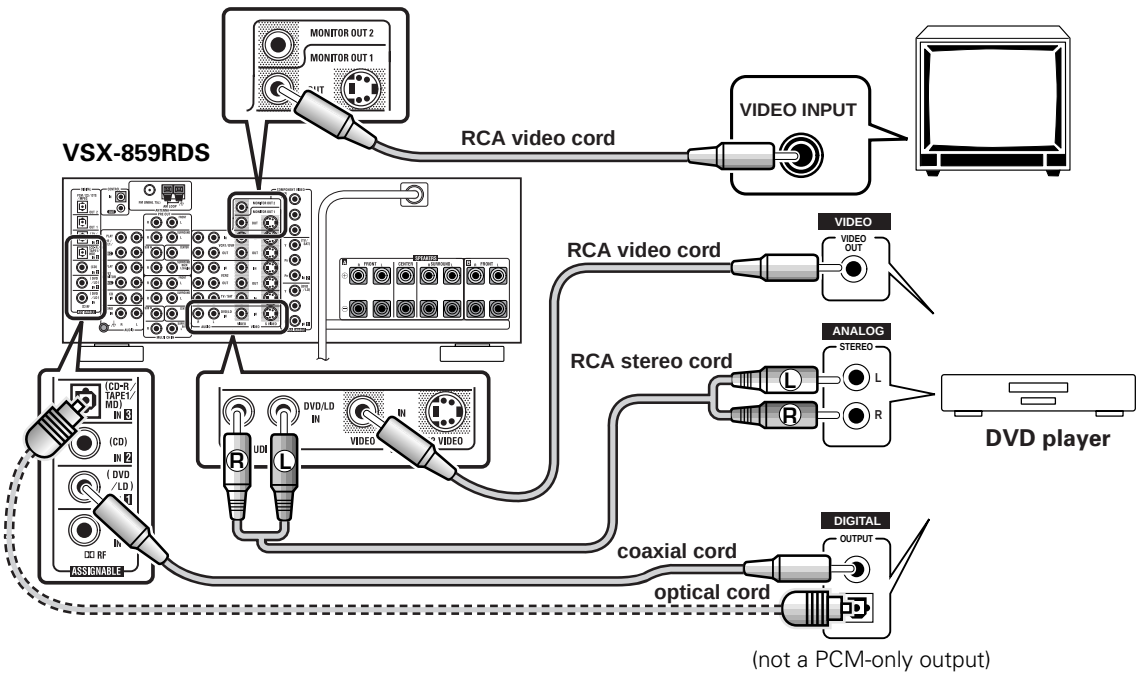
This is a quick guide to setting up your new receiver so you can get home theater surround sound. For more details on any of the information presented here check the main section of the manual.
Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

1 Hooking Up Your DVD Player & TV

In order to use Dolby Digital/DTS/MPEG soundtracks which are at the heart of home theater you need to hook up your DVD player with digital audio connections. You can do this by either a coaxial or an optical connection, **you don't need to do both.** The quality of these two types of connections is the same but since some digital components only have one type of digital terminal you need to figure out which yours has and hook it up to the appropriate terminal on the receiver. In order to do this you will need the proper cable. For coaxial connections you can use a regular RCA stereo cord or the specially-made coaxial cords, they have the same type of plugs. For optical connections you will need a special optical cord which you can buy at your local stereo store. Also hook up the video connection of your DVD player, the analog audio (for recording the audio on DVDs, use regular RCA stereo cords), and your TV (it's easiest to use regular composite RCA video cords) as shown below. It is important that you hook up your TV (or monitor) in order to see a video image as well as the on screen displays (OSDs) shown by the VSX-859RDS (for more on p. 16 –17). We also recommend hooking up all your digital components to analog audio jacks as well. For this you can use regular RCA stereo cords.

Digital Connection

If your DVD player has a coaxial terminal (not a PCM-only output) for the audio out hook up the receiver using that terminal. This is the best scenario, as you will be able to follow the default settings of this receiver and won't need to assign the digital inputs. If your DVD player has an optical terminal (not a PCM-only output) for the audio out you can hook up the receiver using that terminal. You will need to assign the digital input (tell the receiver which input you put your DVD digital audio into). See p. 5 or 6 for this. In both cases follow the diagram below to make a digital connection between your DVD player and this receiver.



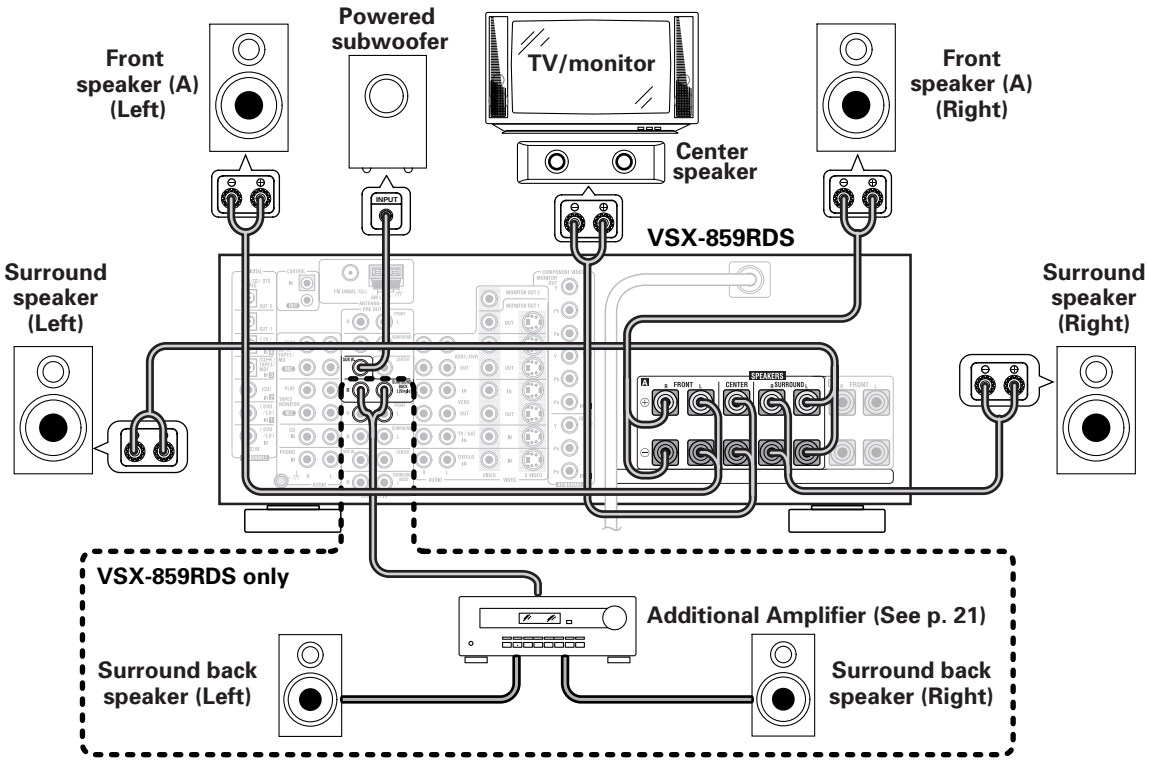
2 Speaker Connections

Home theater is designed to be set up with five, or seven speakers (front left & right; center; surround left & right; and, optimally, surround back left & right, you can't hook up surround back speakers to the VSX-839RDS) and a subwoofer but you can use this receiver with fewer speakers .

Hook up the speakers you have to the SPEAKERS A terminals on the back of the receiver. If you only have two speakers hook them up as FRONT. If you have three, hook up the single speaker as CENTER. Follow the diagram below in order to hook up all your speakers. A center speaker is very important for watching films because the dialog comes from the center speaker in digital soundtracks. **If you do not have a CENTER speaker you must tell the receiver the CENTER channel is OFF or when you listen to digital soundtracks you won't hear any dialog.** Use the instructions on p. 36 – 37 in order to do this.

Follow the diagram below to hook up an additional amplifier in order to use surround back speakers (this is not possible for the VSX-839RDS). These speakers are important to hear all the sound channels on new, eight channel home theater DVDs. The diagram below also explains how to hook up a subwoofer which provides realistic bass sounds.

Make sure you connect the speaker on the right to the right terminal and the speaker on the left to the left terminal. Also make sure the positive and negative (+/–) terminals on the amplifier match those on the speakers.



3 Setting up the Remote Control & Unit

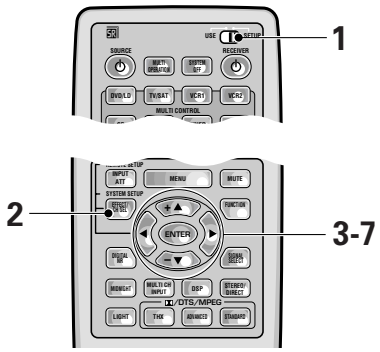
1 Put the batteries in the REMOTE CONTROL.

2 Plug the main unit into a AC wall outlet.

There are two buttons that affect the power. ON/OFF actually turns the power on/off and STANDBY/ ON toggles between standby mode and the receiver fully on. When in standby mode you can turn the unit on with the remote control.

4 Digital Input Assignment (VSX-859RDS)

This is only necessary if you did not hook up your DVD to DIGITAL IN 1, as in the diagram on p. 3.



1 Set the remote control slide switch to SETUP.

Also make sure your TV is on and set to the receiver.

- When you're done setting up the receiver, remember to set the slide switch back to USE.

2 Press the SYSTEM SETUP button.

You should see the following display on your TV.

```
System Setup
►[Assign Setup]
 [Surround Setup]
 [Function Rename]
 [EXIT]
```

- You can escape from this screen at any time by pressing the SYSTEM SETUP button again. None of the settings you made will be entered in this case.

3 Assign Set up should be selected, if it isn't use the ▲/▼ buttons to select it. Press ENTER.

You should see the following display on your TV.

```
Assign Setup
►[Digital-In Select]
 [Multi Channel In]
 [Component-In Select]

 [EXIT]
```

4 Digital in Select should be selected, if it isn't use the ▲/▼ buttons to select it. Press ENTER.

You should see the following display on your TV.

```
Digital-in Select

► Digital-1  [DVD/LD]
  Digital-2  [  CD  ]
  Digital-3  [ CD-R ]
  Digital-4  [TV/SAT]
  RF IN      [DVD/LD]
  [EXIT]
```

5 Choose the Digital-3 (or the digital in jack you connected your DVD to on page 3) you hooked up your DVD player to and assign "DVD/LD" to it.

① Use the ▲/▼ buttons to choose the Digital-3 and press ENTER.

```
Digital-in Select

  Digital-1  [DVD/LD]
  Digital-2  [  CD  ]
► Digital-3  [DVD/LD]
  Digital-4  [TV/SAT]
  RF IN      [DVD/LD]
  [EXIT]
```

② Use the ▲/▼ buttons to choose the DVD/LD setting and press ENTER.

```
Digital-in Select

  Digital-1  [ OFF  ]
  Digital-2  [  CD  ]
  Digital-3  [DVD/LD]
► Digital-4  [TV/SAT]
  RF IN      [DVD/LD]
  [EXIT]
```

6 Select EXIT with ▲/▼ buttons and press ENTER to return to the Assign Setup menu.

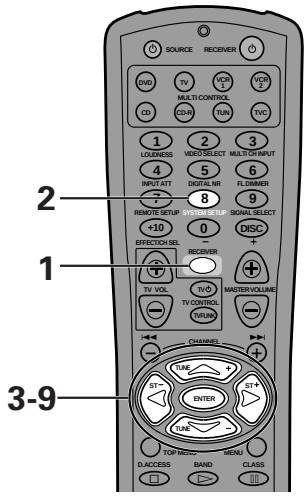
```
Assign Setup
 [Digital-In Select]
 [Multi Channel In]
 [Component-In Select]

►[EXIT]
```

7 Select EXIT with ▲/▼ buttons and press ENTER to return to the System Setup menu.

4 Digital Input Assignment (VSX-839RDS)

This is only necessary if you did not hook up your DVD to DIGITAL IN 1, as in the diagram on p. 3.



1 Press the RECEIVER.
This switches the remote to the surround Set up mode.

2 Press the SYSTEM SETUP button.
You should see the following display on your receiver.

- You can escape from this screen at any time by pressing the SYSTEM SETUP button again. None of the settings you made will be entered in this case.

3 "Assign Set" should be selected (if it isn't use the ▲/▼ buttons to select it). Press ENTER.
You should see the following display on your receiver.

4 "Digital in" should be selected (if it isn't use the ▲/▼ buttons to select it). Press ENTER.
You should see the following display on your receiver.

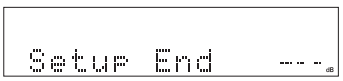
5 Choose the "Digital-3" (or the digital in jack you connected your DVD to on page 3) with ▲/▼ buttons you hooked up your DVD player to. Press ENTER.

6 Choose the "DVD/LD"(if it isn't use the ▲/▼ buttons to select it). Press ENTER.

7 Select "Dig-In End" with ▲/▼ buttons and press ENTER to return to the Dig-In Setup menu.

8 Select "Assign End" with ▲/▼ buttons and press ENTER to return to the Assign Setup menu.

9 Select "Setup End" with ▲/▼ buttons and press ENTER to return to the System Setup menu.



5 Playing a DVD with Surround Sound

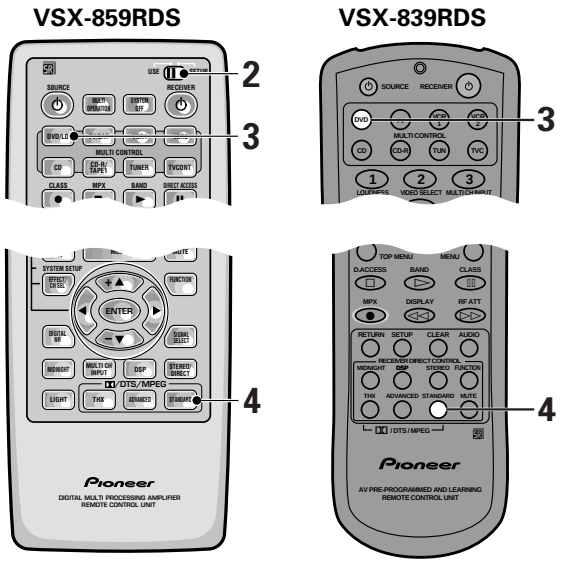
1 Turn on your TV, and the DVD player.

2 Set the remote control slide switch to USE (VSX-859RDS only).

3 Press the DVD/LD button (DVD button for the VSX-839RDS) on the remote control.
You should see "DVD/LD" in the dislpay on the receiver.

4 Press the STANDARD button for the basic surround sound setting.

5 Play a DVD.



6 For Better Surround Sound

1 Go through the entire "Initial Set up" procedures as outlined on pages 29 – 43 of this instruction manual.
If you don't hook up any other components with digital audio or do so following the default settings of the receiver (see page 13 you won't have to assign any more digital inputs, but many other adjustments are necessary and will improve the sound tremendously.

2 Experiment with the different sound settings offered with the DD/DTS/MPEG and DSP buttons.
For more information see pages 44 – 48.

3 As mentioned above you should go through the "speaker setting" instructions on p. 30 – 43 to set up your speakers properly. If you don't do this you, at least, need to make sure the CENTER channel is turned off if you don't have a center speaker. Use the instructions on p. 36 – 37.

```
Speaker Setting

  [FREE]
  [THX]

  Front       [LARGE]
►Center       [ NO ]
  Surround    [LARGE]
  SurrBack    [LARGEx2]
  Subwoofer   [ YES ]
  [EXIT]
```

This display is for the VSX-859RDS only.

Features

Multi Channel Stereophonic Concept

The VSX-859RDS and VSX-839RDS receivers are constructed with Pioneer's industry-leading multi channel stereophonic concept. This well-developed approach to receiver circuitry takes the high level base technology that, up until now, has been only used for stereo equipment and applies it to multi-channel audio-visual receivers. The result is that the product, in addition to being expertly built, and gives you optimal sound reproduction of DVDs, other multi channel sources and stereo sources as well. This receiver is designed capture to a true reproduction of the intentions of a filmmaker or music producer at the time they were mastering the soundtrack in the studio. It incorporates 5 independent 100 watt built in power amplifiers, with high-performance Hex power Direct Power MOS FET output transistors. The isolated chamber construction cuts off unwanted electrical influences from the digital circuitry and allows accurate representation of each channel for true high fidelity reproduction from even the most demanding Dolby Digital, DTS and MPEG program sources. In addition, the amplifier uses Direct Construction to give the purest sound available. All these elements consolidated in one receiver afford the listener a new surround sound experience in his or her home.

Universal Player Compatibility

This receiver incorporates the latest technology and is able to handle cutting edge audio formats, like DVD Audio, which are just hitting the market. Its high compatibility offers a variety of inputs to decode all types of sources at the highest possible quality. The VSX-859RDS's multi channel in connections lets you hook up eight discrete channels of audio, and the the VSX-839RDS allows six. They also have multi channel direct inputs and the ability to decode the cutting edge formats.

Decoding of Next Generation Digital Source Film Formats

Built into this the VSX-859RDS is the latest in film sound format technology. This technology includes the recent THX SURROUND EX (VSX-859RDS only) and HOME THX CINEMA surround modes which employ special processing to allow you to enjoy movie soundtracks with the same level of power and realism you experience in well-designed movie theaters. The THX SURROUND EX mode has been especially designed to incorporate surround back channels that some new source material uses. Both the VSX-859RDS and the VSX-839RDS have the ability to decode Dolby Digital, Dolby Pro Logic, DTS (Digital Theater Systems) and MPEG sources, which are the standards of home theater today. It also offers component video terminals for the sharpest video transmission available to the consumer.

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"DTS", "ES" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. Manufactured under licence from Digital Theater Systems, Inc.

Manufactured under license from Dolby Laboratories. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories. All rights reserved. **G007 En**

Advanced Theater Modes & DSP Surround Modes

Advanced Theater modes enhance the sound of either film or music so a more dramatic effect can be achieved. The four modes are each designed to accentuate specific sound qualities, giving the listener a wide range of possibilities. DSP (Digital Signal Processing) surround modes give you the capability of transforming your living room into seven different sonic environments when listening to music.

Midnight Mode, Digital Noise Reduction & 7 Channel Tone Control

The Midnight mode allows you to obtain excellent surround sound effects even when listening at low volumes, something that was previously impossible. Digital noise reduction filters out unwanted noise from recordings to give you a clearer sound and the 7 channel tone (5 channel tone for the VSX-839RDS) control allows you to adjust the treble and bass of each channel individually to suit your listening tastes.

The Energy-saving Design

This unit is designed to use less than 1 W of energy when the receiver is in standby mode.

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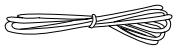
Before You Start

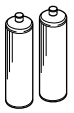
Checking the Supplied Accessories

Please check that you have received all of the following supplied accessories.

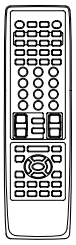


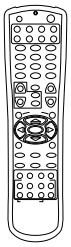
FM wire antenna

AM loop antenna



"AA" IEC LR6 batteries x 2





VSX-859RDS VSX-839RDS
Remote control unit

- **Operating Instructions**

How to Use This Manual

This manual is for the VSX-859RDS and VSX-839RDS Audio/Video Multi-Channel Receivers.
This manual is divided into three main sections which will tell you how to setup and use the unit:

PREPARATION
First carry out the tasks below in this "Before You Start" section to prepare the remote control, then connect the receiver to your other components as described in "Connecting Your Equipment" (p. 12). Take special care to connect your digital equipment like DVDs and LDs properly to be able to take advantage of the receiver's surround sound systems (p. 13 – 15). To learn about a specific button, control, or indicator, see "Displays & Controls" starting on p. 22.

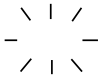
SET UP
Performing the tasks in "Initial Setup" (from p. 29) is essential to get proper surround sound.

OPERATION
To play some music or soundtrack refer to "Basic Playback" starting on p. 44. "Using the Tuner" (p. 58) explains how to use the radio of this unit. Doing the operations in "Remote Control of Other Components" (p. 68) is highly recommended so you can use this unit's remote control for all your components. "Using Other Functions" (p. 84) explain the other possibilities of the receiver.
"Techno Tidbits & Problem-solving" (p. 97) provide detailed technical information and a troubleshooting guide.

The following marks and symbols are used throughout the manual:

Provides additional information, precautions, and advice.

Indicates a blinking button, indicator, or display.



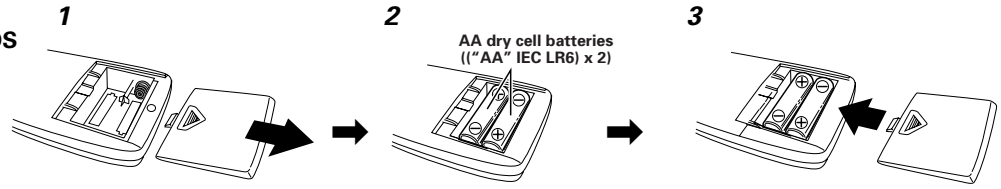
Indicates a steadily lit button, indicator, or display.

Preparing the Remote Control

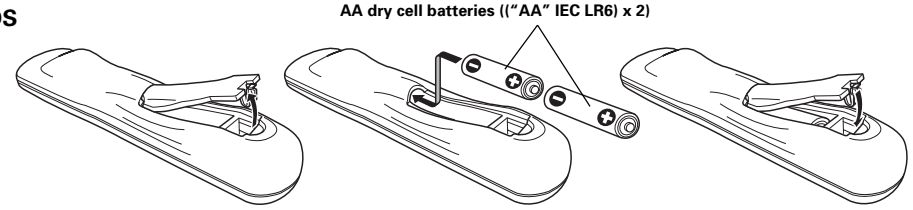
Loading the batteries

Load the batteries into the remote control as shown below. Please use alkaline batteries. When you notice a decrease in the operating range of the remote control, replace all batteries with new ones.

VSX-859RDS



VSX-839RDS

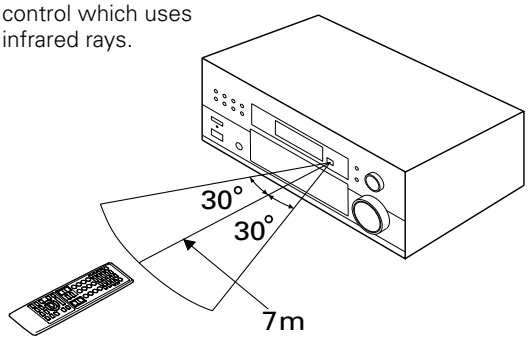


CAUTION!
Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions.
- Never use new and old batteries together.
- Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
- Batteries with the same shape may have different voltages. Do not use different batteries together.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country / area.

Operating range of remote control unit

The area in which you can use the remote control to operate the VSX-859RDS/VSX-839RDS is fairly large. To use, point the remote control toward the remote sensor on the front panel of this unit while within the range shown right.

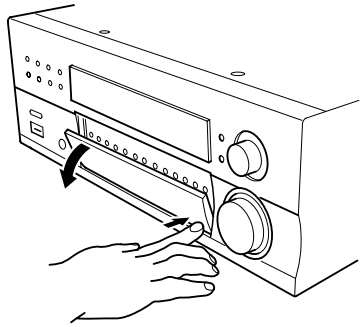
Remote control may not function properly if:
- There are obstacles between the remote control and the remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- The receiver located near a device emitting infrared rays.
- Operated simultaneously with another remote control which uses infrared rays.



This illustration is the VSX-859RDS.

Opening the Front Panel

To open the front panel push gently on the lower third of the panel with your finger.



Installing the Receiver

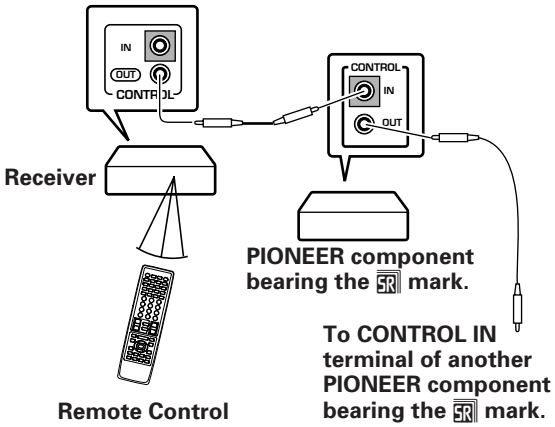
Ventilation

- When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 60 cm at the top, 10 cm at the rear, and 30 cm at each side). If not enough space is provided between the unit and walls or other equipment, heat will build up inside, interfering with performance or causing malfunctions.
- Do not place on a thick carpet, bed, sofa or fabric having a thick pile. Do not cover with fabric or other covering.
  Anything that blocks ventilation will cause the internal temperature to rise, which may lead to breakdown or fire hazard.

The PIONEER SR System:

Operating other PIONEER components

Connecting an optional control cord allows you to operate other PIONEER components simply by pointing the receiver's remote control at the remote sensor on the front panel of the receiver. The receiver then sends the remote control signals to the other devices via the CONTROL OUT terminal.



memo

- You can also control PIONEER components (and those made by other manufacturers) by pointing the receiver's remote control directly at the respective component. This type of operation does not require control cords. All you have to do is recall the appropriate the stored settings (see p. 68 – 70).
- If you use a remote control hooked up via the CONTROL IN jack with a control cord, you won't be able to use this unit's remote control.

Connecting Your Equipment

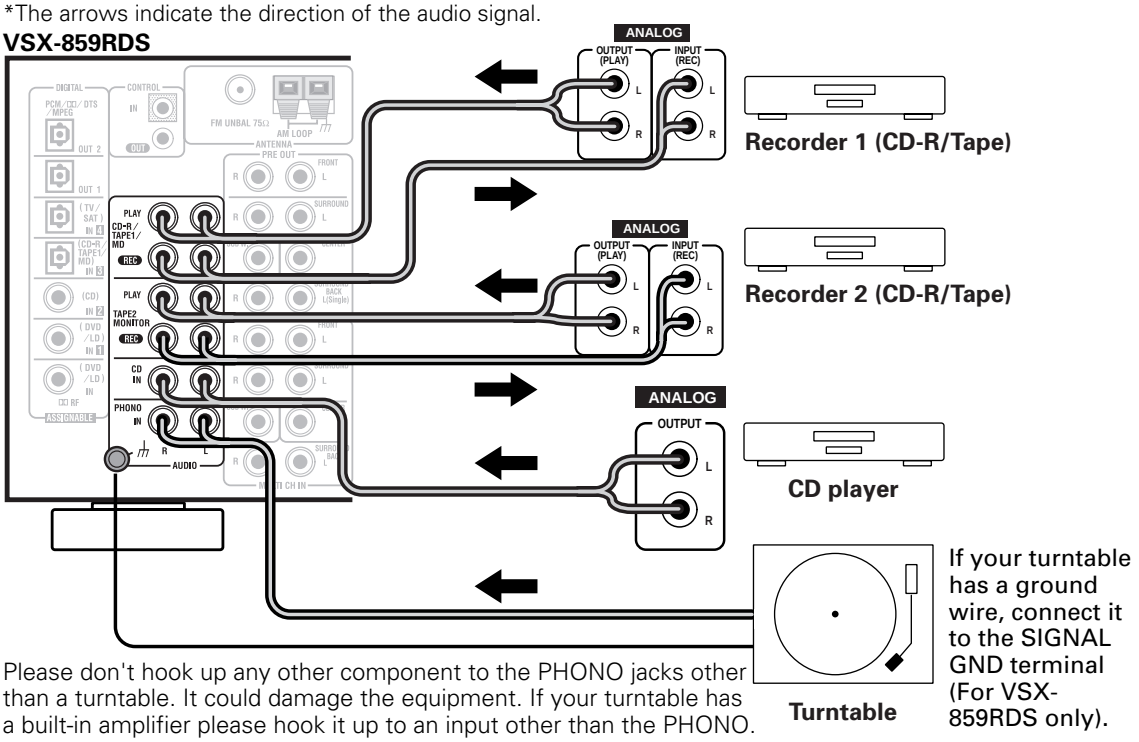
Audio Components

To begin set up connect your audio components to the jacks as shown below. These are all analog connections and your analog audio components (turntable, cassette deck) use these jacks. Remember that for components you want to record with you need to hook up four plugs (a set of stereo ins and a set of stereo outs), but for components that only play (like a turntable) you only need to hook up one set of stereo plugs (two plugs). To use DTS, Dolby Digital or MPEG surround sound features you must hook up your digital audio components to the digital inputs (see p. 13). We also recommend hooking up your digital audio components to analog audio jacks. If you want to record to/from digital components (like a CD-R) to/from analog components you must hook up your digital equipment with these analog connections. See p. 13 & 15 for more on digital connections.

Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

*The arrows indicate the direction of the audio signal.

VSX-859RDS

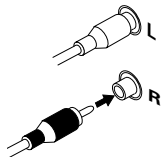


If your turntable has a ground wire, connect it to the SIGNAL GND terminal (For VSX-859RDS only).

Please don't hook up any other component to the PHONO jacks other than a turntable. It could damage the equipment. If your turntable has a built-in amplifier please hook it up to an input other than the PHONO.

■ Analog audio/video cords

Use audio/video cords (not supplied) to make analog audio and video connections.



Connect red plugs to R (right) and white plugs to L (left).

Be sure to insert completely.

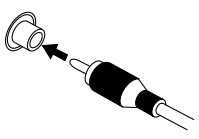
Cassette deck placement

Depending on where the cassette deck is placed, noise may occur during playback of your cassette deck which is caused by leakage flux from the transformer in the receiver. If you experience noise, move the cassette deck farther away from the receiver.

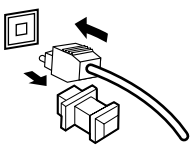
■ Coaxial cords/Optical cables

Commercially available digital audio coaxial cords (standard video cords can also be used) or optical cables (not supplied) are used to connect digital components to this receiver. When you use optical digital input or output terminals, pull off the caps and insert the plugs. Be sure to insert completely.

Digital audio coaxial cord (or standard video cord)



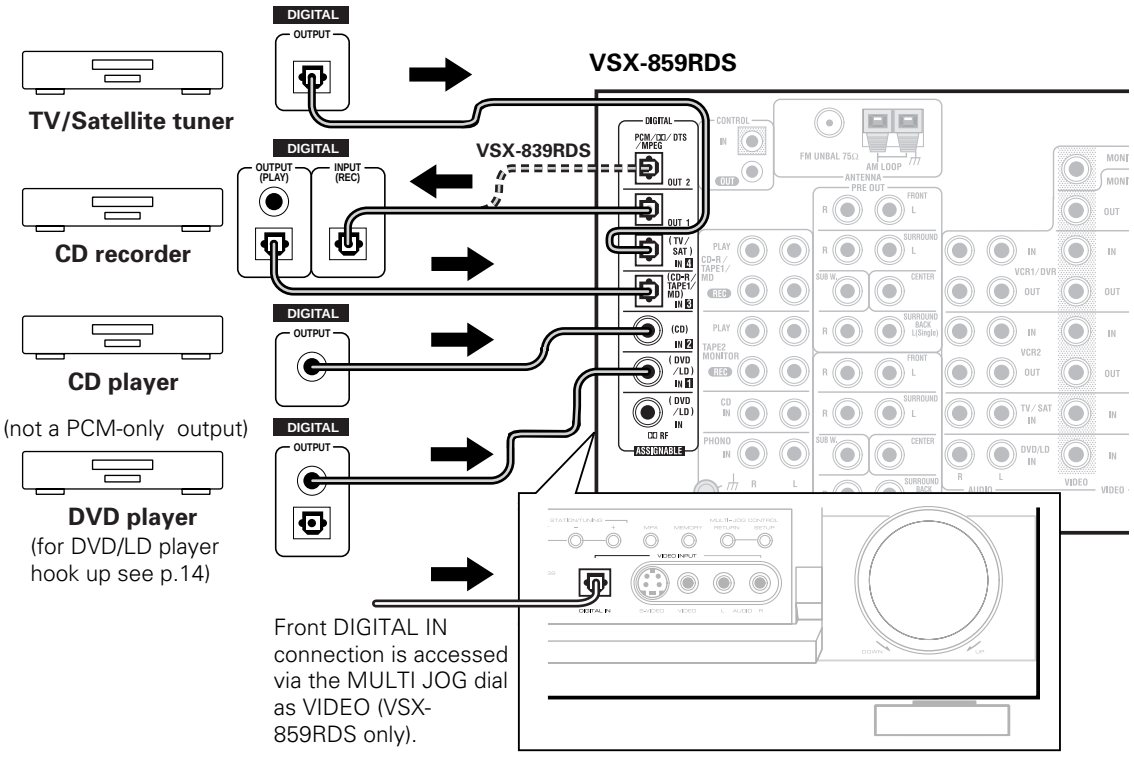
Optical cable



Digital Connections

In order to use Dolby Digital/DTS/MPEG soundtracks which are at the heart of home theater you need to make digital audio connections. You can do this by either a coaxial or an optical connection (you don't need to do both). The quality of these two types of connections is the same but since some digital components only have one type of digital terminal, it is a matter of matching like with like (for example, the coaxial out from the component to coaxial in on the receiver). The VSX-859RDS has two coaxial and three optical inputs for a total of five digital inputs (the VSX-839RDS has two coaxial and two optical inputs). In order to hook up a DVD/LD player or LD player see p.14. If possible hook up your digital equipment in accordance with this receiver's default settings, see "Digital Input Assignment," below, in order to do this. We also recommend hooking up your digital components to analog audio jacks in order to make recording from some digital sources which may be copy protected.
Connect your digital components as shown below.
There are two optical digital out jacks (one for the VSX-839RDS). The CD recorder is connected to one in the diagram below. If you connect this to the optical input on a digital recorder (currently these include MD, DAT and CD-R) you can make direct digital recordings with this unit.
Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

*The arrows indicate the direction of the audio signal.



Digital Input Assignment

Unlike analog connections, the jacks for digital connections are not dedicated to one type of component, they can be used freely. Thus you must tell the receiver what digital component in which jack so your components will be in sync with the names on the remote control buttons and the like. To avoid having to assign the digital inputs you can hook up your equipment in accordance with the receiver's default settings.
The default settings are:

DIGITAL IN 1: DVD/LD DIGITAL IN 3: CD-R
DIGITAL IN 2: CD DIGITAL IN 4: TV/SAT

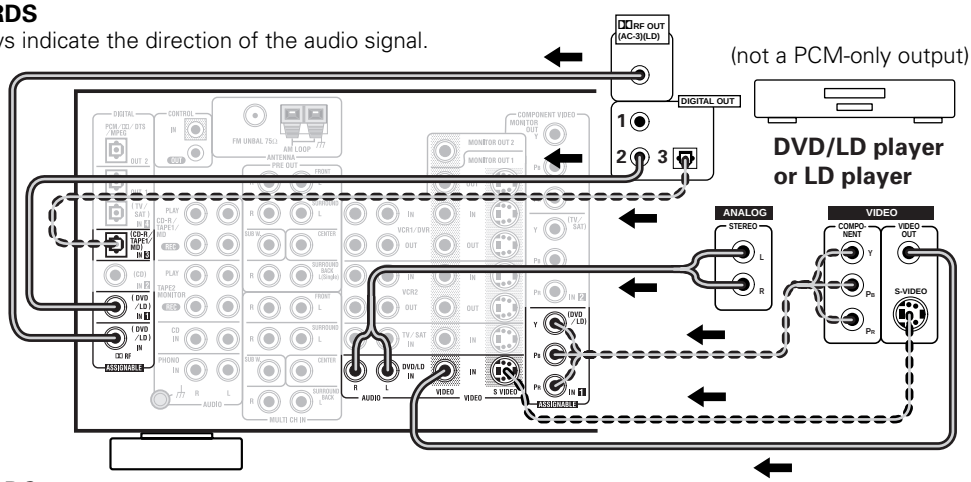
You will notice that Digital IN 1, for example, is a coaxial jack. If your DVD/LD player only has an optical out jack on it then you won't be able to hook up your components in accordance with the VSX-859RDS/VSX-839RDS default setting. In this case you will need to assign the digital inputs. See "Digital-In Select" on p. 33 in order to do this.

Example Connection for a DVD/LD or LD Player

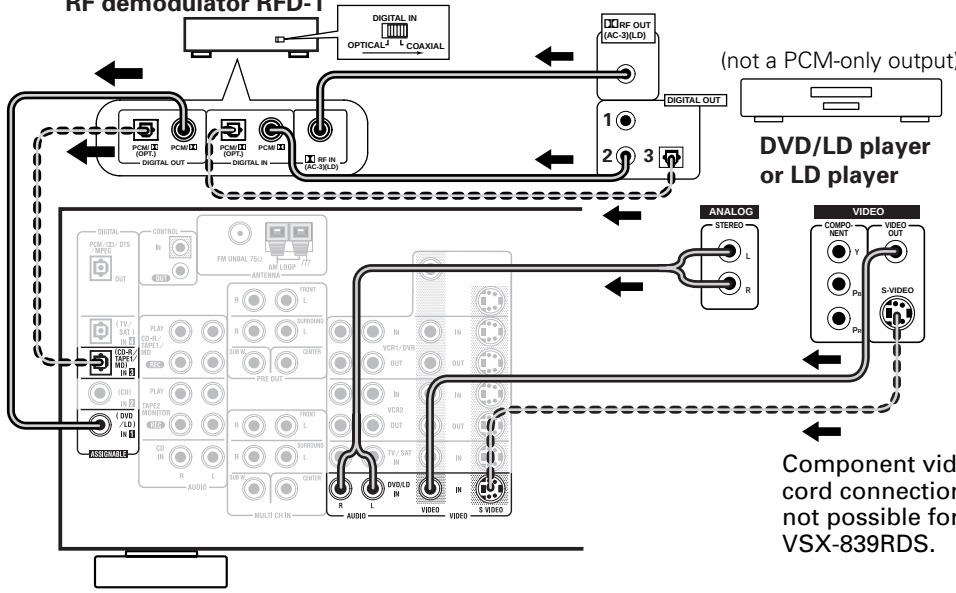
Since some LDs have soundtracks recorded on the special ◘◘ RF format you need to make special hook ups to ensure you can play all LDs on your system. If you don't have an LD (or an LD player with your DVD player) you don't need to worry about this. For the VSX-859RDS hook up your DVD/LD or LD player directly and make sure you make both a ◘◘ RF output and **either** a coaxial or optical digital connection. To connect a DVD/LD player or LD player with a ◘◘ RF output to the VSX-839RDS, however, a commercially available RF demodulator (RFD-1) is required. The RF demodulator changes the RF signal to a digital signal which is then processed by the receiver through its digital input jacks. For more details, refer to the instruction manual supplied with the RFD-1. Of course you must hook up your DVD/LD or LD player with standard (coaxial or optical) digital connections but if you are able to hook up your player with a ◘◘ RF output (if your player has one) this will ensure you can use all LDs available. We also recommend hooking up your digital components to analog audio jacks as well.
Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

VSX-859RDS

*The arrows indicate the direction of the audio signal.



VSX-839RDS



memo

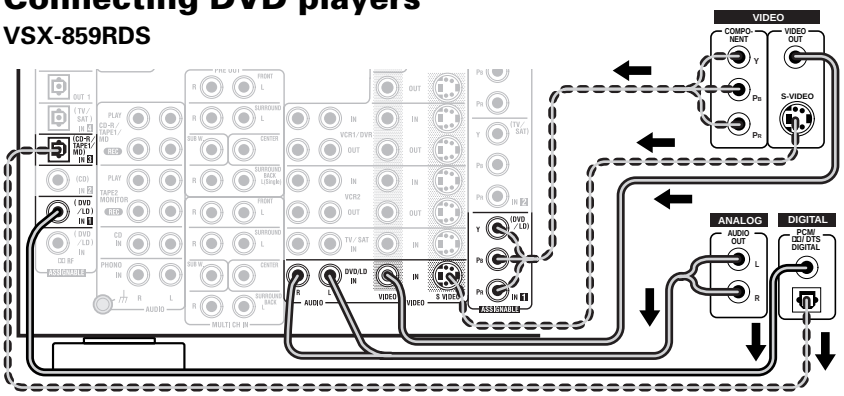
Be sure to make either a digital coaxial or digital optical connection as well, but you **don't** need to make both. Make sure the RF demodulator digital in switch is set correctly (optical or coaxial depending on the connection). Also, be sure to assign the jacks to the proper component(s) with the Digital-In Select procedure (see p. 33 if necessary). See the component's instruction manual if you are unsure about its input and output jacks.

Video Components

Connect your video components to the jacks as shown below. Regarding a DVD there are two types of connections to make. Hook up your video signal with either component video (not possible for the VSX-839RDS), S-video, or composite video cords (the quality descends in this order) but remember, the video component you are watching and your TV must be hooked up with same type of video cord or you won't be able to see the picture. For the audio signal, order to use Dolby Digital/DTS/MPEG you must hook up a digital input. It is also a good idea to hook up your DVD components with analog audio connections as well, since some DVDs may not have a digital audio track. To cover all possible laser discs a DVD/LD player or LD player requires an analog connection and two digital connections (a coaxial or optical **and** a specialized RF demodulator connection, as explained on the previous page).
Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.
*The arrows indicate the direction of the audio & video signal.

Connecting DVD players

VSX-859RDS



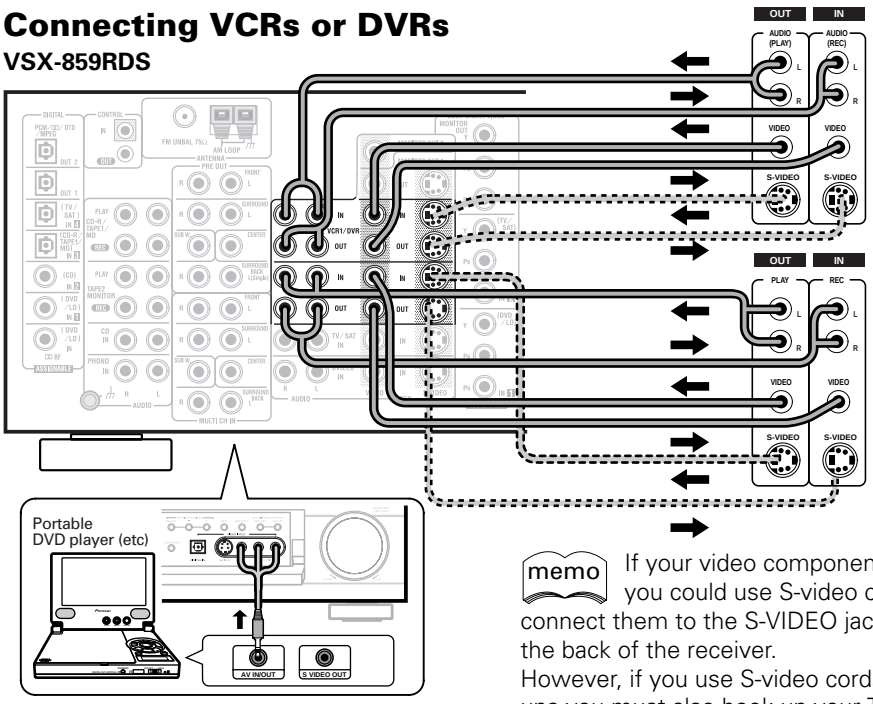
(not a PCM-only output)

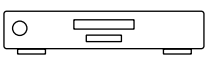
DVD player

If you hook up your DVD player using component video connections be sure to select component video output on your DVD player as well. See your DVD manual for details.

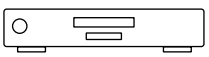
Connecting VCRs or DVRs

VSX-859RDS





VCR 1/DVR



VCR 2

Front panel video connections are accessed with the MULTI JOG dial as VIDEO.
(This illustration is for the VSX-859RDS only).

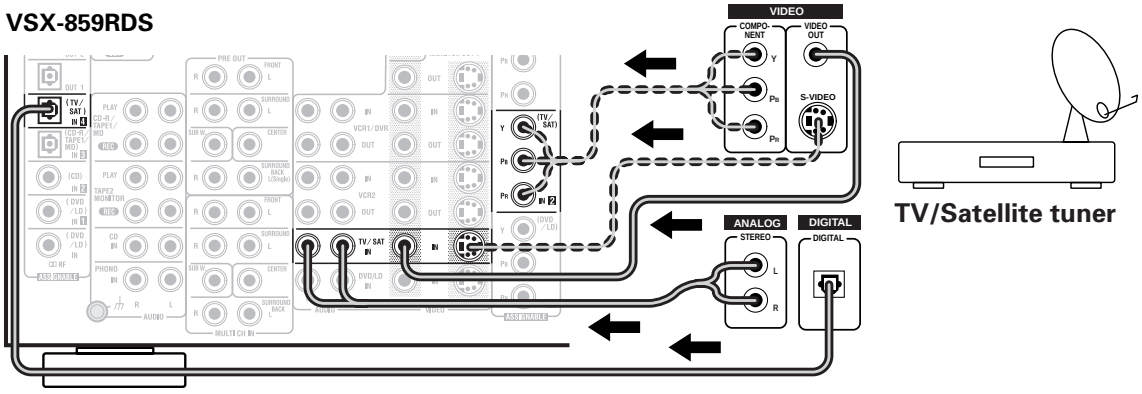
memo If your video components have S-video jacks, you could use S-video cords (not supplied) to connect them to the S-VIDEO jack on the front panel or the back of the receiver.
However, if you use S-video cords for your video hook ups you must also hook up your TV with S-video connections. Conversely, if you use regular composite video cords for video hook ups, you should use them for your TV as well.

TV/ Satellite Tuner Components

Connect your satellite TV components to the jacks as shown below. Hook up the video signal with either component video (not possible for the VSX-839RDS), S-video, or composite video cords (the quality descends in this order) but remember, the video component you are watching and your TV must be hooked up with same type of video cord or you won't be able to see the picture. For the audio signal, order to use digital soundtracks (sometimes broadcast over digital satellite TV) you must hook up a digital input. Use either a coaxial or optical cables, it doesn't matter which (you don't need to use both). It's also a good idea to hook up your audio with analog cables (see below). This connection is called STEREO AUDIO OUT in the diagram.
Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

*The arrows indicate the direction of the TV signal.

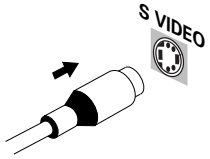
VSX-859RDS



memo See the component's instruction manual if you are unsure about its input and output jacks.

■ **S video cords**

If you use S video cords (not supplied) to connect the video components be sure to insert completely.



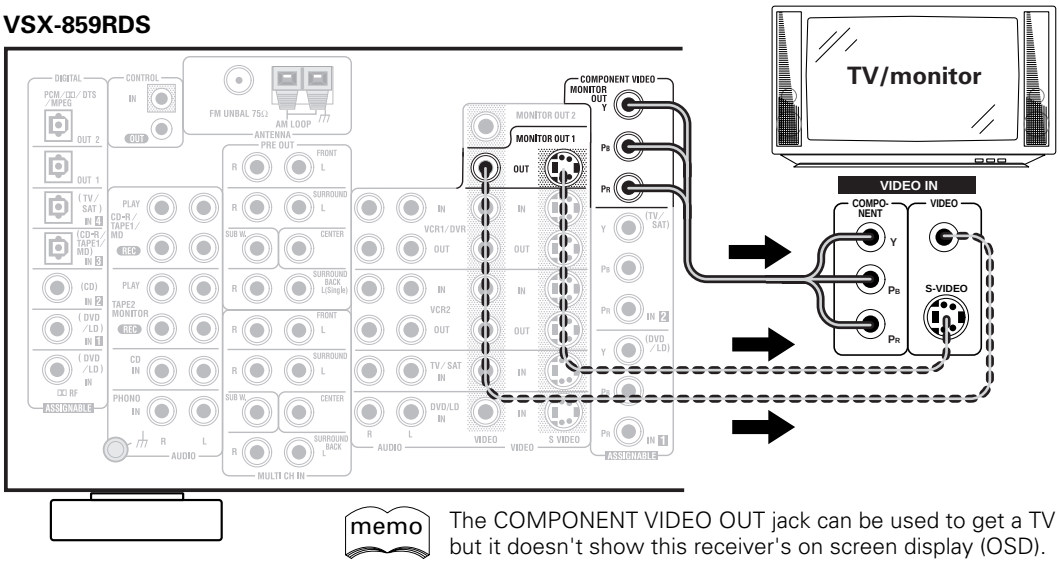
(See note on p. 15 if you choose to use S-video connections.)

TV

Connect your TV to the jacks as shown below. Hook up the signal with either component video (not possible for the VSX-839RDS), S-video, or composite video cords (the quality descends in this order) but remember, the video component you are watching and your TV must be hooked up with same type of video cord or you won't be able to see the picture.Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

*The arrows indicate the direction of the TV signal.

VSX-859RDS



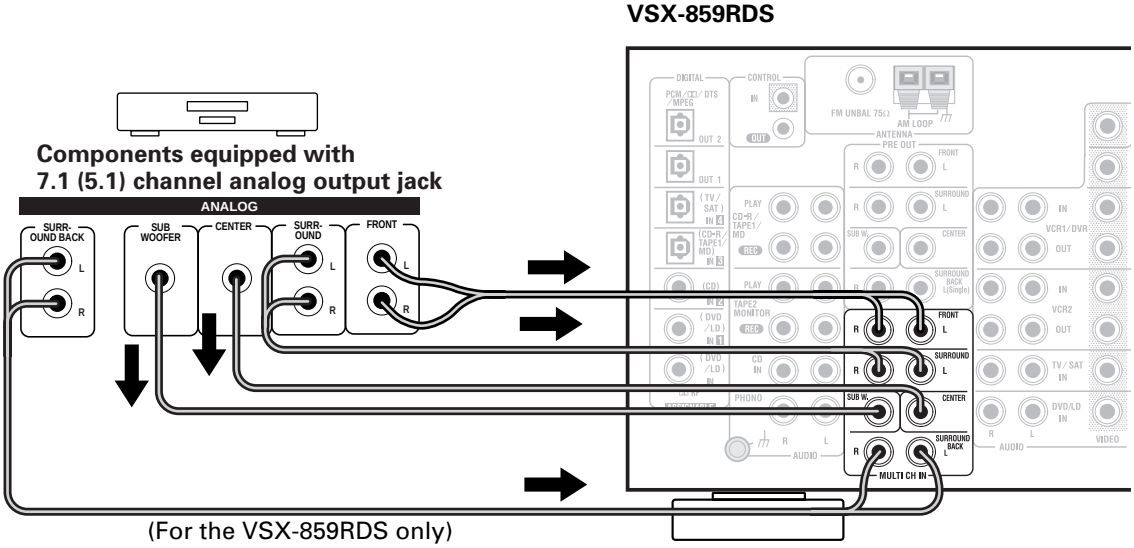
memo The COMPONENT VIDEO OUT jack can be used to get a TV picture but it doesn't show this receiver's on screen display (OSD).

Multi Channel Input (External Decoder)

In some cases you may want to have your source material (DVD, etc) decoded externally. If you find you need a multi channel external decoder hook one up as shown below, but for most people this component is unnecessary (For more on this see p. 55).Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

*The arrows indicate the direction of the video signal.

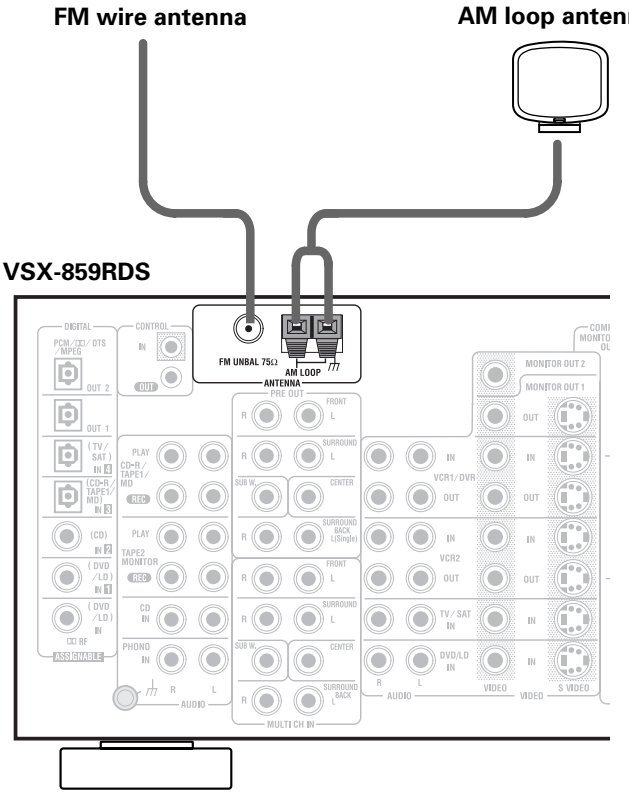
VSX-859RDS



(For the VSX-859RDS only)

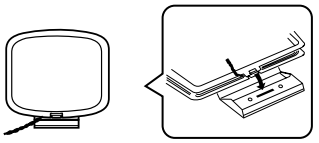
Connecting the Radio Antennas

Connect the supplied FM wire antenna and the AM loop antenna to the antenna terminals as shown below. These antennas should provide adequate reception quality in most cases, but connecting outdoor antennas should noticeably improve sound quality. Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

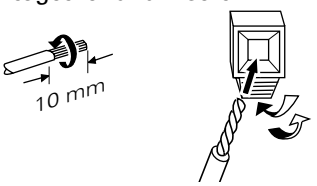


■ AM loop antenna

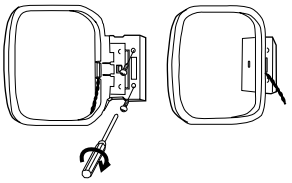
① Assemble the antenna.



② Twist exposed wire strands together and insert.



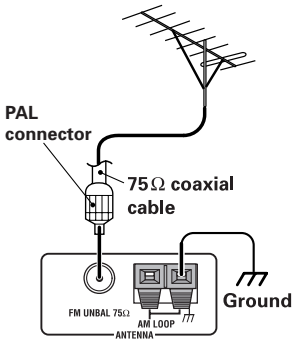
③ Attach to a wall, etc. (if desired) and face toward the direction providing the best reception.



Using external antennas

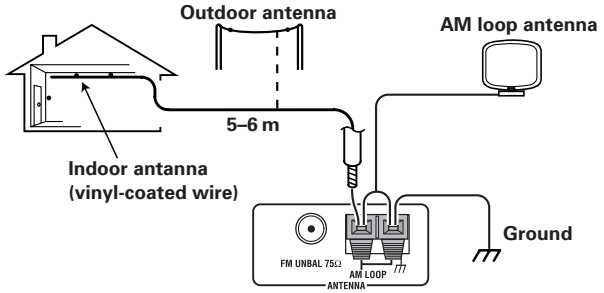
■ To improve FM reception

Connect an external FM antenna.



■ To improve AM reception

Connect a 5–6 meter length of vinyl-coated wire to the AM antenna terminal in addition to the supplied AM loop antenna. For the best possible reception, suspend horizontally outdoors.



Speakers

A full complement of eight speakers (six for the VSX-839RDS) is best but, naturally, everyone's home set up will vary. Simply connect the speakers you have in the manner described below. The receiver will work with just two stereo speakers but it is designed to be used with at least three speakers.

One of the latest features of home theater is the use of SURROUND BACK speakers. These speakers add even greater realism in movie sound effects and new discs with soundtracks in Dolby Digital, DTS or MPEG incorporate these channels. In order to be able to use these channels you must hook your SURROUND BACK speakers up to an external amplifier and then connect that to the VSX-859RDS (you can't hook up surround back speakers to the VSX-839RDS), as shown in the diagram on p. 4. If you only have one SURROUND BACK speaker hook it up to the SURROUND BACK L (SINGLE) terminal on the back of the receiver.

In general, make sure you connect the speaker on the right to the right terminal and the speaker on the left to the left terminal. Also make sure the positive and negative (+/–) terminals on the receiver match those on the speakers.
Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

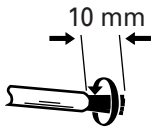
memo

The receiver has two speaker systems, A & B. A is the main system supporting the full complement of surround sound speakers. If you switch on both A & B speaker systems, only front speakers and the subwoofer will be audible. No sound will come from the center or surround speakers but multi channel sources will be down-mixed to the active speakers so no sound will be lost. Similarly, if you choose just the B system you'll only hear the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers.

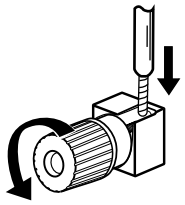
For the VSX-859RDS/VSX-839RDS you can use speakers with a nominal impedance rated 6Ω-16Ω, see below for more details.

■ Speaker terminals

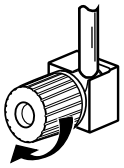
① Twist exposed wire strands together.



② Loosen speaker terminal and insert exposed wire.

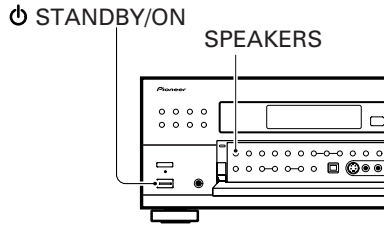


③ Tighten terminal.



Speaker impedance

You can change the speaker impedance for VSX-859RDS/VSX-839RDS but we recommend using speakers with an impedance of 8Ω-16Ω (the default setting). If you are using 6Ω- less than 8Ω impedance speakers, you need to change the impedance setting. Use any speaker rated between 6Ω-16Ω.



First put the receiver in STANDBY mode, then press the power button while holding down the SPEAKERS button.

The receiver will reset to the new impedance setting. You can choose the 8Ω-16Ω setting or the 6Ω-8Ω setting.

(This display indicates a 6Ω-less than 8Ω impedance setting.)

(This display indicates an 8Ω-16Ω impedance setting.)

memo

To check which impedance setting to hold down the SPEAKERS button for 2-3 seconds. You'll get a display like the ones on the right telling you the speaker impedance setting.

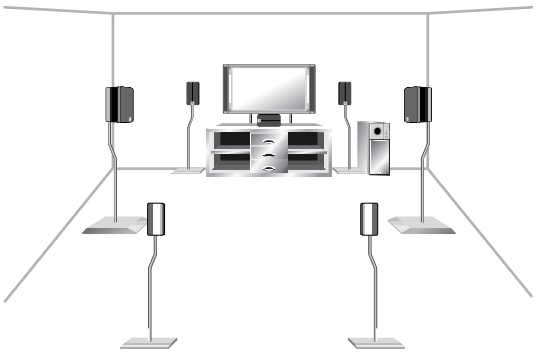
Placing Your Speakers

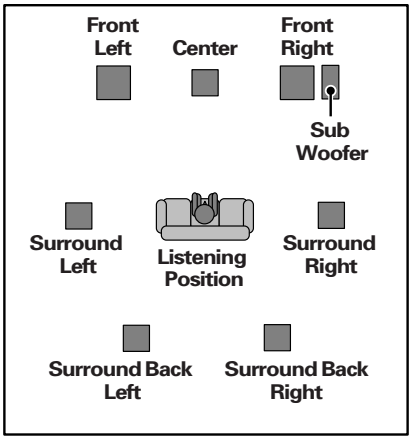
Proper speaker placement is essential to realize the best sound from your system. The diagram and tips given here are just a rough guide.

Speaker placement

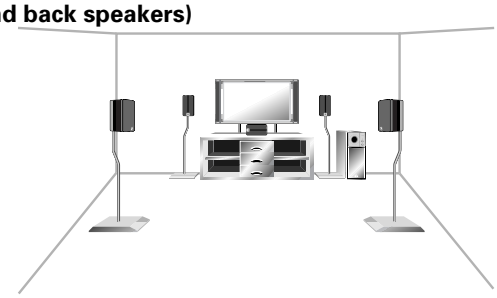
If you have a multiple speaker arrangement the placement of the speakers is extremely important. To achieve the best possible surround sound, install your speakers as shown below. Make sure all speakers are installed securely to prevent accidents and improve sound quality. Be sure to consult your speaker manuals for the best placement of the speakers. Some speakers are designed to be floor-standing but others benefit greatly from speakers stands which raise them off the floor.

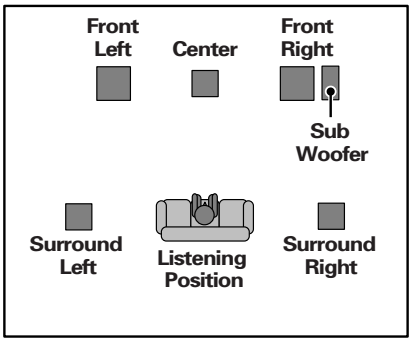
VSX-859RDS





VSX-839RDS (or VSX-859RDS without surround back speakers)





memo

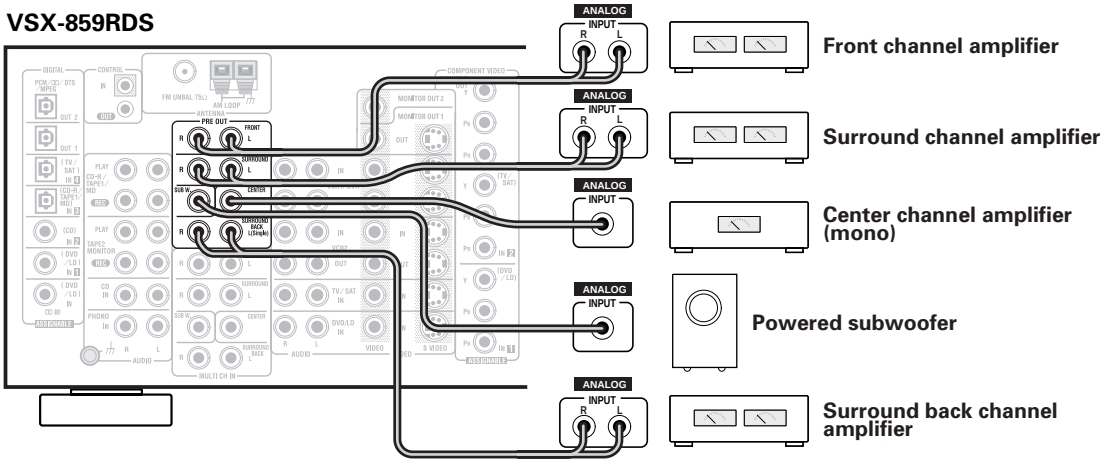
- Install the left and right front speakers at equal distances from the TV.
- When installing speakers near the TV, we recommend using magnetically shielded speakers to prevent possible interference such as distortion in the color of the TV screen. If you do not have magnetically shielded speakers and notice discoloration of the TV screen, place the speakers farther away from the TV.
- Install the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen.
- If possible, install the surround speakers slightly above ear level.
- It may be difficult to obtain a cohesive surround effect if the surround speakers are installed farther away from the listening position than the front and center speakers.

CAUTION:
When installing the center speaker on top of the TV, be sure to secure it with tape or some other suitable means. Otherwise, the speaker may fall from the TV due to external shocks such as earthquakes, and it may lead to endangering those nearby or damaging the speaker.

Connecting Additional Amplifiers

To hook up surround back speakers you need to use an additional amplifier (this is not possible with the VSX-839RDS). Other than for that purpose this receiver has more than sufficient power for any home use, but it is possible to add additional amplifiers to every channel of your system. Make the connections shown below to add amplifiers to power your speakers.
Before making or changing the connections, switch off the power and disconnect the power cord from the AC wall outlet.

VSX-859RDS



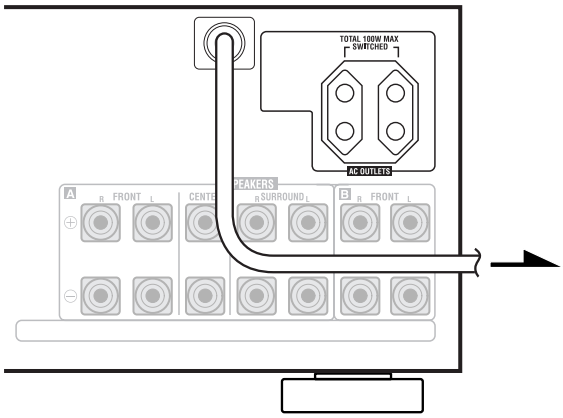
(For the VSX-859RDS only)

memo

You can use the additional amplifier on the surround back channels (VSX-859RDS only) for a single speaker as well. In this case plug the amplifier into the L (SINGLE) terminal only.

Plugging In (Except for the U.K. model)

Two components can be powered from this receiver. These outlets are switched, which means that power is switched on and off with the receiver.
After connecting all your components, plug the receiver's power cord into a standard wall power outlet.



This illustration is not applicable to the U.K. model.

Caution!

Power consumption of any equipment connected to the **switched** power outlets should not exceed **100W**.

To avoid overheating, fire risk and possible malfunction, do not connect high-wattage appliances such as heaters, irons, monitors or TV sets to this units AC outlets.

Disconnect the receiver from the power outlet when it's not in regular use, for example, when on vacation.

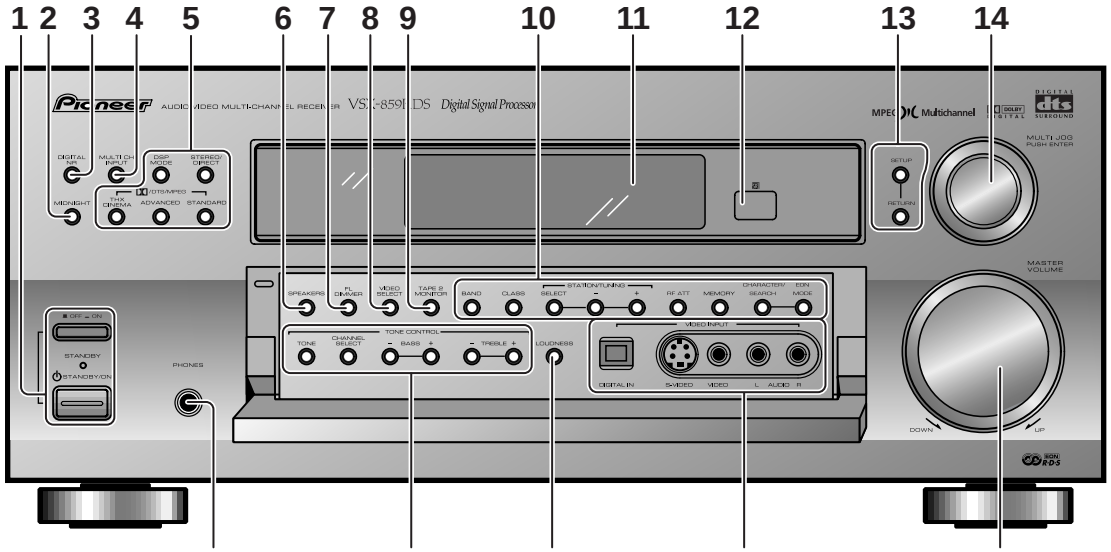
Caution!

Do not connect a monitor or TV to this unit's AC OUTLETS.

Displays & Controls

Front Panel

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.



1 ⏻ STANDBY/ON button
Press to switch the receiver ON or into STANDBY mode.

STANDBY indicator
Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [1.0 W] in the standby mode.)

▮ OFF ▁ ON button
Press to feed power to the unit from the mains. Press again to cut power. When this is on you can use the remote control to turn on the unit. When this is off you can't use the remote control to turn the unit on.

2 MIDNIGHT button (See p. 53)
Switches the MIDNIGHT mode on or off (cannot be used in THX mode).

3 DIGITAL NR button (See p. 52)
Switches the DIGITAL NR on or off (cannot be used in THX mode).

4 MULTI CH INPUT (See p. 55)
Use to hook up an external component that can decode other types of signals and input them into the receiver.

5 DSP MODE button (See p. 46 – 48)
Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2, 5/7 CH STEREO). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

STEREO/DIRECT button (See p. 46 & 56)
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or toggles between DIRECT and STEREO mode. For more on STEREO mode see p. 46. DIRECT playback bypasses the tone controls, DNR, LOUDNESS, MIDNIGHT and channel level for the most accurate reproduction of a program source.

/ DTS/ MPEG buttons (See p. 44 – 48, 97 – 99)
THX CINEMA – Cycles through the THX CINEMA, THX SURROUND EX (for VSX-859RDS only) or THX AUTO (for VSX-859RDS only) sound modes, Use when listening THX-certified sources, if you have THX-certified speaker setup or want to re-create a THX-style sound environment. It is also appropriate for Dolby Digital, Dolby Pro Logic, DTS or MPEG sources. Those with surround back speakers can use all three THX modes, those without can only use the THX CINEMA mode.
ADVANCED THEATER – Use to select one of the four Advanced Theater modes. Use to create certain types of sound environments when listening to Dolby Digital, Dolby Pro Logic, DTS or MPEG sources.
STANDARD – Use for pure decoding of multi channel sources, especially Dolby Digital, Dolby Pro Logic, DTS or MPEG software.

6 SPEAKERS (A/B) button
Use to select the speaker system. A is the primary setting. It plays all speakers hooked up to the A system. A & B setting only plays the front speakers of both the A & B systems and the subwoofer. Multi channel sources will be down-mixed to these speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers. The button cycles through the speaker systems as follows: A ⇨ B ⇨ A&B ⇨ off

7 FL DIMMER button (See p. 56)
Use to adjust the brightness of the fluorescent display (FL = fluorescent display).
Four levels of the brightness ranging from very dim to very bright can be selected. Each press changes the brightness of the display.

8 VIDEO SELECT button
Switches the receiver between the various types of video input while keeping the audio input the same.

9 TAPE 2 MONITOR button (See p. 84)
Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it's being made.

10 TUNER CONTROL buttons (See p. 58-67)
BAND button – Press to select the AM or FM band.
CLASS button – Press repeatedly to switch the preset station classes.
TUNING SELECT – Switches the STATION/TUNING button between station memory and frequency select modes.
STATION –/+ button – Use to choose programmed radio stations.
TUNING –/+ button – Use to manually tune to radio stations.
RF ATT button – Press to turn the RF attenuator on when receiving strong FM signals (nearby stations) to reduce sound distortion. Normally, set the RF attenuator to off. This button does not affect AM reception.
MEMORY button – Press to start the memorization of a preset station.
CHARACTER/SEARCH button – Press to select the character input mode, or initiate an RDS PTY search (see "Memorizing a broadcast station name" on p.62 and "Searching for a program by program type (PTY) on p. 66).
EON MODE button (See p. 64 – 67)
Press to start EON search. (See p. 67)

11 Display (See p. 28)

12 Remote sensor
Point the remote control toward the remote sensor to operate the receiver.

13 MULTI-JOG CONTROL buttons
SETUP – Press to switch the setup mode.
RETURN – Press to move back one step in the SETUP process.

14 MULTI JOG dial
You can use this dial for three purposes. In normal mode turn it to select a source component or press it to switch the display between function mode and sound mode. When you press the SETUP button (13), you can use it to perform SETUP operations (turn to select, push to enter).
DVD/LD – DVD player or laser disc player.
TV/SAT– TV or satellite tuner.
CD – Compact Disc player.
CD-R /TAPE1/MD– CD recorder, tape deck or mini disc recorder connected to CD-R/TAPE 1/MD inputs/outputs.
TUNER – The built-in tuner.
PHONO (VSX-859RDS only) – Turntable.
VIDEO – Video camera (etc.) connected to the VIDEO INPUT on the front panel.
VCR1/DVR – Video cassette recorder connected to VCR1/DVR inputs.
VCR 2 – Video cassette recorder or other component connected to VCR 2 inputs.

15 MASTER VOLUME
Adjusts the overall receiver volume.

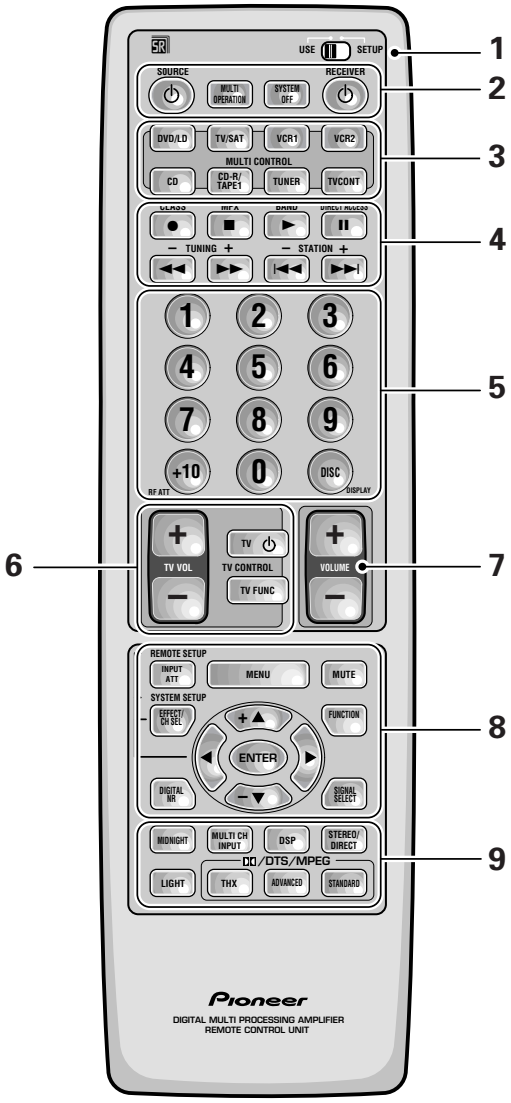
16 VIDEO INPUT jacks (See p. 15)
DIGITAL IN (VSX-859RDS only): Optical input for connecting a video game, portable DVD, etc., that has an optical out.
S-VIDEO : Video input for connecting a portable DVD player or game (etc.), that has an S-Video out.
VIDEO / AUDIO (L/R) : Video input for connecting a portable DVD player or game (etc.). that has standard video/audio outputs.

17 LOUDNESS button (See p. 53)
Switches the LOUDNESS mode on or off (cannot be used in THX mode).

18 TONE buttons
This button has two functions. Firstly, it switches between TONE on and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the CHANNEL SELECT buttons to adjust the BASS & TREBLE (cannot be used in THX mode).
CHANNEL SELECT button
Switches the tone adjust controls between the FRONT, CENTER, SURROUND and SURROUND BACK speakers (VSX-859RDS only). You can then use the BASS and TREBLE controls to adjust the sound.
BASS (–/+) buttons (See p. 54)
Use to adjust the low frequencies.
TREBLE (–/+) buttons (See p. 54)
Use to adjust the high frequencies.

19 PHONES jack
Connect headphones for private listening (no sound will be heard through the speakers).

Remote Control (VSX-859RDS)



1 USE/SETUP slide switch
Use to put the remote into receiver SETUP, or receiver USE mode.

2 ⏻ SOURCE button
Use to turn on the power of your other components after you have recalled or taught the signals to this remote control.

MULTI OPERATION button
Use this button to start the MULTI OPERATION mode. See p. 89 – 91 for how to program and use the MULTI OPERATION mode.

SYSTEM OFF button
This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the MULTI OPERATIONS settings will also be turned off (see p. 92).

For example: If you programmed power on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⏻ RECEIVER button
Press to turn power of the receiver on or to STANDBY (off).

3 MULTI CONTROL buttons
Use these to select a source and the corresponding remote operation mode.

For example, pressing TUNER selects the built in tuner and sets the remote operation to the tuner functions.

4 Component Control buttons
Use to control specific components, like a CD player or DVD player, after you have programmed the remote control to do these operations (see pages 77 – 83) and the remote is put in that operation mode.

[Tuner control]

CLASS – Press repeatedly to switch the preset station classes.
MPX – Press to switch between auto stereo and mono reception of FM broadcasts.
BAND – Press to select AM or FM band.
DIRECT ACCESS – Press to activate the direct access tuning mode.
TUNING +/– – Use to manually tune in to radio stations.
STATION +/– – Use to choose programmed radio stations.

5 Number buttons
These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD and tuner operations.

6 TV CONTROL buttons
The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.

TV ⏻ button – Press to turn the power of the TV on/off.

TV FUNC button – Press TV FUNC to select the TV for remote control operation.

TV VOL +/– button – Use to adjust the TV volume.

7 MASTER VOLUME buttons
Use to raise or lower the volume of the receiver.

8 INPUT ATT button (when USE mode is selected)
Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVERLOAD indicator will light).

REMOTE SETUP button (when SETUP mode is selected)
Use to customize the remote control functions and the remote control itself. (See "Setting Up the Remote Control to Control Other Components" starting on p. 68, "Multi Operations" starting on p. 89.)

MENU button
Use to get the various menus for your DVD or TV.

MUTE button
Press to mute or restore the volume.

EFFECT/CH SEL (when USE mode is selected) button (see memo on p. 48).
EFFECT – Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/Advanced Theater you want (by pressing the DSP/ Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

CH SEL – You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust.

SYSTEM SET UP button (when SETUP mode is selected)
Use to set up the speaker and sound systems. For more information see "Setting up for Surround Sound" starting on p. 30.

FUNCTION button
Press to select a source. The button will cycle through all the possible sources.

▲(+)/▼(–)/◄/►/ENTER buttons
Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other set up features see p. 30 – 43).
They also can be used to operate DVD players and other components after you have input the components preset codes.
Specific use of these buttons is described in conjunction with the operations they perform. For more information see each individual section.

DIGITAL NR button
Press to switch Digital NR on or off. (See p. 52)

SIGNAL SELECT button (See p. 51)
Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, CD-R/TAPE 1/MD, VCR 1/DVR, VCR 2).

RF – RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).

AUTO – This is the default. If there are analog, RF or digital signals input the receiver automatically selects the best possible signal.

9 MIDNIGHT button (See p. 53)
Switches the MIDNIGHT mode on or off.

MULTI CH INPUT button (See p. 34, 55)
Press to switch to multi channel input mode.

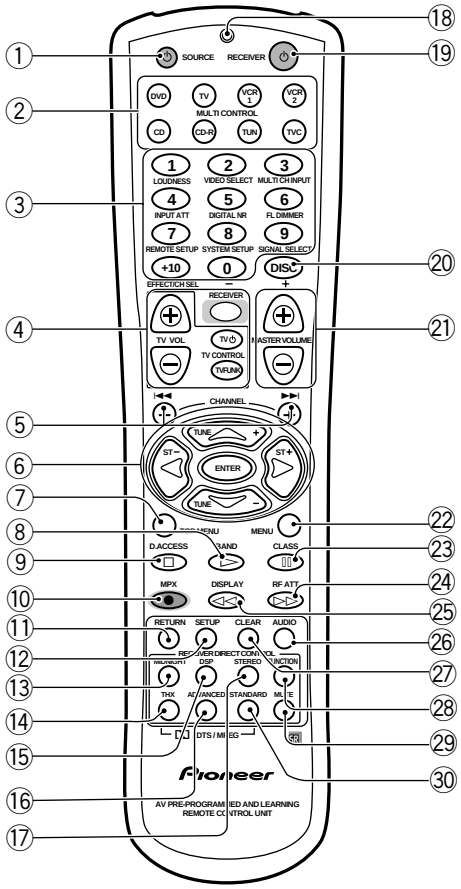
DSP button (See p. 46 – 48)
Press to select a DSP sound mode. Repeated presses cycle through the different possible DSP modes.

STEREO/DIRECT button (See p. 46 & 56)
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or toggles between DIRECT and STEREO mode. For more on STEREO mode see p. 46. DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

LIGHT button
Press to light the remote control buttons.

/DTS/MPEG buttons (See p. 44 – 50)
Press these buttons to put the receiver in the selected sound mode. For more information on these specific sound modes see p. 97 – 99.

Remote Control (VSX-839RDS)



① ⏻ **SOURCE button**
Use to turn on/off other components connected to the receiver.

② **MULTI CONTROL buttons**
Use to put the receiver/remote control in the stated mode.
For other equipment controls, see "Using the Remote Control with Other Components" on pages 77 – 83.

③ **NUMBER/MODE buttons**
Use the number buttons to select the radio frequency in tuner DIRECT ACCESS mode or the tracks in CD, DVD mode etc.

Also, buttons marked with the following names have special functions. If you try to use one of these functions but the display flashes it means that function cannot be used in the current mode (for example DSP modes cannot be used when 5.1 CH setting is on).

LOUDNESS button
Use to switch on the loudness. This feature is useful for getting good bass and treble sounds listening at low volumes.

VIDEO SELECT button
Switches the receiver between the various types of video input.

MULTI CH INPUT button (See p. 34, **55)**
Use to hook up an external component that can decode other types of signals and input them into the VSX-839RDS.

INPUT ATT button
Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVERLOAD indicator will light when this is the case).

DIGITAL NR button
Press to switch Digital NR on or off (see page 52).

FL DIMMER button (See p. 56)
Use to adjust the brightness of the fluorescent display (FL = fluorescent display).
Four levels of the brightness ranging from very dim to very bright can be selected. Each press changes the brightness of the display.

REMOTE SETUP button
Use to customize the remote control functions and the remote control itself (see "Setting Up the Remote Control to Control Other Components" starting on p. 68).

SYSTEM SETUP button
Use to set up the speaker and sound systems. For more information see "Setting up for Surround Sound" starting on p. 30.

SIGNAL SELECT button
Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, CD-R/TAPE 1/MD, VCR 1/DVR, VCR 2).

AUTO – This is the default. If there are analog and digital input signals, the receiver automatically selects the best possible signal.

EFFECT / CH SEL button
For DSP/advanced theater sound modes use to put into the mode to add or subtract the amount of effect. For other sound modes use to select individual channels to increase or decrease channel level.

EFFECT +/– buttons
Use to add or subtract the amount of effect in different DSP/advanced listening sound modes or the level of individual channels.

④ **The following set of four buttons are dedicated to TV control They are only for controlling your TV.**

TV VOLUME +/– buttons
Use to adjust the volume on your TV.

TV ⏻ button
Use to turn on the power of the TV.

TV FUNC button
Use select the TV function.

MENU button
Use to access different menus associated with your Satellite TV, cable TV, etc.

⑤ **⏮ ⏭ /CHANNEL +/– buttons**
Use to adjust channels on your TV and VCR or use to select tracks on your DVD or CD player.

⑥ **▲(+)/▼(–)/◄/►/ENTER buttons**
Use to set up surround sound, speakers levels & settings, and other set up features (see p. 30 – 43). Specific use of these buttons is described in conjunction with the operations they perform. For more information see each individual section. Also, use these buttons to select radio frequecies.

⑦ **TOP MENU button**
Use to display the lead trailer on a DVD.

⑧ **► button (BAND)**
Use to play other components.
Use to switch between the AM and FM band when in TUNER mode.

⑨ **■ button (DIRECT ACCESS)**
Use to stop other components. Also use to directly access a radio station by pressing the number of the station you want.

⑩ **● (MPX)**
Use to stop other components. Also use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to MONO will improve the sound quality.

⑪ **RETURN button**
Use to return to a previous setting during set up operations

⑫ **SETUP button**
Use this button when setting up the remote to control other components.

⑬ **MIDNIGHT button (See p. 53)**
Use to put receiver in MIDNIGHT mode.

⑭ **THX button**
Press to select the HOME THX CINEMA sound mode when listening to Dolby Digital, Dolby Pro Logic, DTS or MPEG a variety of other sources.

⑮ **DSP button (See p. 46 – 48)**
Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2, 5 CH STEREO). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

⑯ **ADVANCED button**
Use to select one of the four Advanced Theater modes. Use to create certain types of sound environments when listening to Dolby Digital, Dolby Pro Logic, DTS or MPEG sources.

⑰ **STEREO button (See p. 46 & 56)**
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or toggles between DIRECT and STEREO mode. For more on STEREO mode see p. 46

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

⑱ **LED DISPLAY**
This display flashes when a command is sent from the remote control to the receiver. It also flashes at other times, for example when teaching the receiver preset codes, with specific meanings.

⑲ **⏻ RECEIVER button**
This switches between STANDBY mode and power ON for this receiver.

⑳ **DISC button**
Use for controlling other components only.

㉑ **MASTER VOLUME +/– buttons**
Use to set the overall listening volume.

㉒ **MENU button**
Use to get the various menus for your TV.

㉓ **II button (CLASS)**
Use to pause other components.
Also use the CLASS feature to switch between the three banks (classes) of station memories.

㉔ **►► button (RF ATT)**
Use to fast forward search on CDs etc.
Also use to lower the input level of a radio signal.

㉕ **◄◄ button (DISPLAY)**
Use to fast reverse search on CDs etc.
Also use to display the RDS information.

㉖ **AUDIO button (RDM)**
Changes the audio function (for example, the language) on a DVD. Also use to start random play with some components.

㉗ **CLEAR button**
Closes any TV menu that is open on the screen.

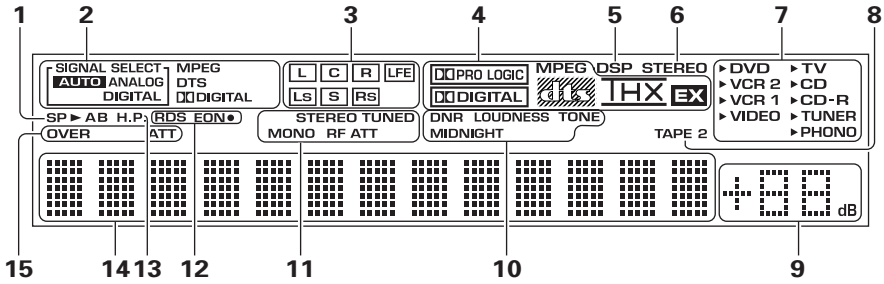
㉘ **FUNCTION button**
Press to select a source. The button will cycle through all the possible sources.

㉙ **MUTE button**
Press to mute or restore the volume.

㉚ **STANDARD button**
Use for pure decoding of multi channel sources, especially Dolby Digital, Dolby Pro Logic, DTS or MPEG sources.

Display

All the display information is explained and/or referenced here.



1 Speaker indicators
Light to indicate the current speaker system, A and/or B.

2 SIGNAL SELECT indicators
Light to indicate the input signal you selected.

3 Program Format indicator
For Dolby Digital, DTS or MPEG sources, these indicators change according to which channels are active in the source. When all three LS (left surround), S (surround) and RS (right surround) light at the same time it means a DOLBY SURROUND EX source, a DTS ES source, or an MPEG source with surround back channels is being used (for VSX-859RDS only).
L – Left front channel.
C – Center channel.
R – Right front channel.
LS – Left surround channel.
S – Surround channel (mono).
RS – Right surround channel.
LFE – Low Frequency Effects channel.

4 /dts/MPEG mode indicators
DIGITAL – Indicates multi channel playback of a Dolby Digital source.
PRO LOGIC – Lights when Dolby Pro Logic decoding is switched on.
DTS – Indicates a DTS encoded source.
THX – Lights when the HOME THX CINEMA mode is selected.
EX – Lights when decoding a Surround EX source (for VSX-859RDS only).
MPEG Format indicators
Lights when decoding an MPEG format disc.

5 DSP indicator (See p. 45 – 48)
Lights when a DSP or Advanced Theater mode is selected.

6 STEREO indicator
Lights when a STEREO mode is selected.

7 Source indicators
► indicator lights at the selected source.

8 TAPE 2 indicator
Lights when the TAPE 2 monitor is on.

9 MASTER VOLUME indicator
Displays current volume level.

10 Sound control indicators
DNR – Lights when the digital NR is on.
LOUDNESS – Lights when the Loudness is on.
TONE – Lights when the Tone control is on.
MIDNIGHT – Lights when the Midnight mode is on.

11 Tuner indicators
STEREO – Lights when a FM stereo broadcast is received in the auto stereo mode.
TUNED – Lights when a broadcast is received.
MONO – Lights when the tuner is set to receive FM broadcasts with the mono mode selected.

12 EON, RDS Display
These indicators light when RDS or EON search is being used.

13 H.P (headphones)
Lights when headphones are connected to the PHONES jack (speakers systems A and B both turn off automatically).

14 Character display
Shows current function or sound mode, status, etc.

15 Analog level indicators
OVER – When the source signal is analog, this lights if the signal is in danger of distorting. Press INPUT ATT to lower the signal level.
ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

On Screen Display (VSX-859RDS only)

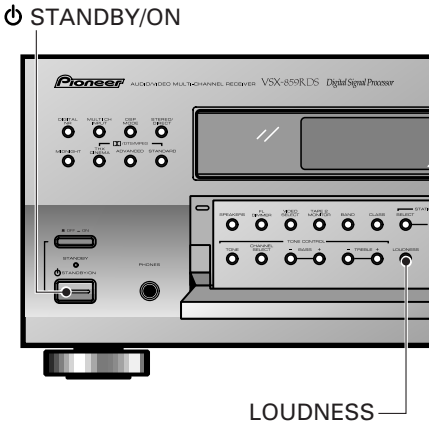
There are a number of possible ways to hook up the receiver to your video components, like a DVD player, and hook up to your receiver to your TV, but some of them will not allow you to use the on-screen display of this unit. To avoid this, you simply need to keep the following rules:

① Always use the same type of video cords to hook up your video components to the receiver as you use to hook up the receiver to your TV. For example, if you use composite video cords to hook up your DVD player to the receiver, use composite video cords to hook up the receiver to your TV. If you use S video cords to hook up your DVD player and the receiver, use S video cords to hook up the receiver to your TV.

② Always make sure your TV is set to the appropriate input channel (for example, video 1). Your TV may have a number of input channels and if you do not select the proper one, you will not be able to use this receiver's on-screen display, or, in fact see any picture from this receiver at all. If you are unsure how to choose an input channel for your TV, refer to the manual which came with your TV.

Switching video system between PAL and NTSC (if necessary)

This receiver is able to use two types of video systems for its OSD (on screen display) either PAL or NTSC. If you don't match the system on the amplifier with your home system no OSD will appear on your TV. The default setting is PAL. If you use this system you don't need to make any settings here. People with multi-system TVs don't need to worry about changing the setting either. If necessary, follow the instructions below to switch the type of video system.



1 Put the receiver in the STANDBY mode.

2 While holding down the LOUDNESS button press the ⏻ STANDBY/ON button.

The video system type will change depending on the state the receiver was previously in. The new type, either PAL or NTSC, will appear in the display. It will be shown for about seven seconds and then the receiver returns to normal operating mode.

To change the video system type again repeat steps 1 and 2.

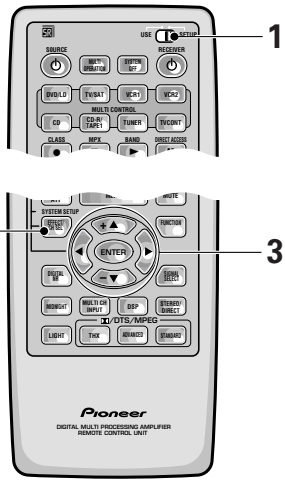
When a PAL system is selected

When a NTSC system is selected

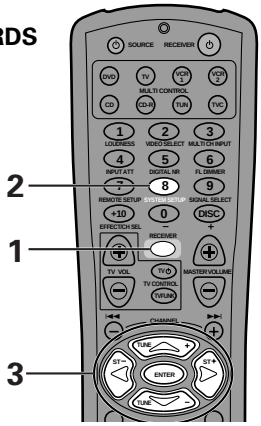
Setting Up for Surround Sound

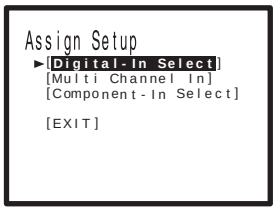
To ensure the best possible surround sound, complete the following setup operations. You only need to make these settings once (unless you change the placement of your current speaker system or add new speakers, etc.). To set up the VSX-859RDS's home cinema system use on-screen displays on your TV or the front panel display on the receiver. Switch on the receiver and your TV, and make sure that the receiver is selected as your TV's video input. For the VSX-839RDS use the front panel display on the receiver. These instructions are written using the remote control to make the settings but you can also use the MULTI JOG dial, SETUP and RETURN buttons on the front panel. Turn the MULTI JOG dial left or right to instead of using the ▲ or ▼ arrow buttons and press the MULTI JOG dial to enter the command.

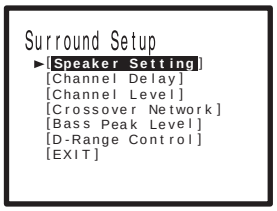
VSX-859RDS



VSX-839RDS





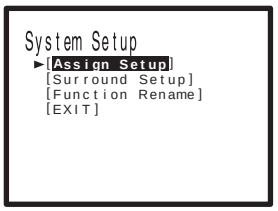


1 For the VSX-859RDS set the slide switch on the remote control to SETUP. For the VSX-839RDS press RECEIVER.

Also make sure your TV is on and set to the receiver.

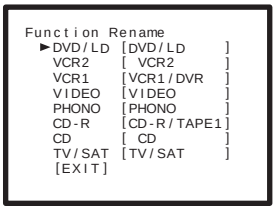
- When you're done setting up the receiver, remember to set the slide switch back to USE.

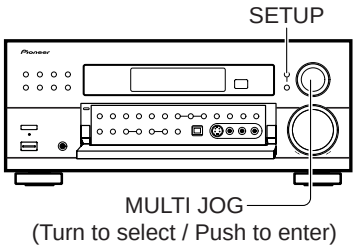
2 Press the SYSTEM SETUP button on the remote control (the number button 8 on the VSX-839RDS).



For the VSX-859RDS only this SYSTEM SETUP MENU appears on your TV screen, For the VSX-839RDS use the display on the receiver to follow along with these set up instructions, though for people with a VSX-859RDS it is also useful to look at the display on the receiver as well as your TV.

- You can escape from this screen at any time by pressing the SYSTEM SETUP button again. None of the settings you made will be entered in this case.
- If don't enter any settings the receiver will revert back to its previous state after three minutes.
- If you want to go back one level in the setup process press the RETURN button on the front panel.





3 Press the ▲ or ▼ arrow buttons (or turn the MULTI JOG dial) to move the hand to the second tier of setup modes and choose the one you want. Then press the ENTER button (or the MULTI JOG dial).

There are three second tier setup modes: **ASSIGN SETUP, SURROUND SETUP** and **FUNCTION RENAME**. The first of these, ASSIGN SETUP, is for telling the receiver which components are hooked up to which terminals and how they are connected. In the ASSIGN SETUP menu you must make the DIGITAL-IN-SELECT adjustments if you didn't follow the default settings when you hooked up your DVD/LD player.

We suggest you start with DIGITAL-IN-SELECT and adjust and make all the necessary adjustments here and then move on to the other entries in this menu and decide if you need to make these adjustments. It is likely you will not need to bother with any of the other things on this menu.

Next move on to the SURROUND SETUP menu and make all the necessary settings. It is essential you make these settings in order to get good surround sound .

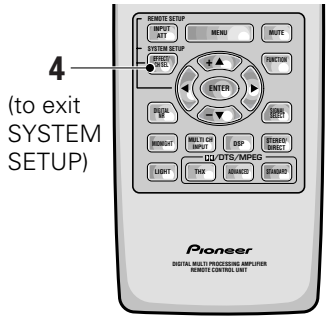
The last set up menu, FUNCTION RENAME, lets you customize the receiver to match your home system. This is not an essential setting to make.

The system set up modes are explained on the next page in a little more detail. The order follows that of the SYSTEM SETUP menu.

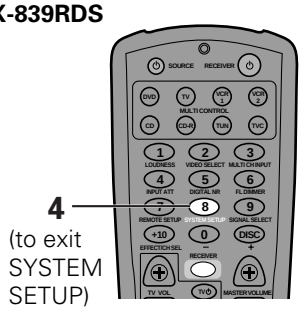
memo (VSX-859RDS only)

After you complete one of the SYSTEM SETUP menus and return to the basic SYSTEM SETUP screen the receiver automatically moves the cursor to the next SYSTEM SETUP menu. For example, if you've completed SPEAKER SETTINGS and returned to the basic SYSTEM SETUP screen, CHANNEL DELAY will be selected automatically. You can notice this on your TV screen or your front panel display.

VSX-859RDS



VSX-839RDS



ASSIGN SETUP:

Digital In Select (See p. 33)
In order to use your digital components you must match the numbered digital input settings with the numbered digital jacks used by your digital components.

Multi Channel In (See p. 34)
This is for hooking up a multi channel external decoder that may give you higher quality when decoding discs. This feature lets you select adjustable to non-adjustable sound.

Component-In Select (VSX-859RDS only) (See p. 35)
In order to use component video connections you must tell the receiver which components are hooked to which terminals.

SURROUND SETUP:

Speaker Setting (See p. 36 – 37)
Use to specify the type and number of speakers you connected.

Channel Delay (See p. 38)
Adding a slight delay to some speakers enhances sound separation and is particularly important for achieving a surround sound effect. You need to figure out the distance from your listening position to your speakers to add the proper delay.

Channel Level (See p. 39 – 40)
Use to balance the volumes of your different speakers.

Crossover Network (See p. 41)
This feature lets you select which bass frequencies will be sent to the subwoofer or front speakers.

Bass Peak Level (See p. 42)
Dolby Digital, DTS and MPEG audio sources include ultra-low bass tones. Set the bass peak level as needed to prevent the ultra-low bass tones from distorting the sound from the speakers.

D-Range Control (See p. 43)
This feature makes possible excellent surround sound effects when listening to Dolby Digital sources at low volumes.

FUNCTION RENAME (See p. 87 – 88)
This feature lets you rename specific "functions," which in this case stands for components like DVD/LD, VCR 1, etc. This is a useful feature for matching the remote control and receiver display exactly with your home setup.

4 Go on to the next page to start the set up.

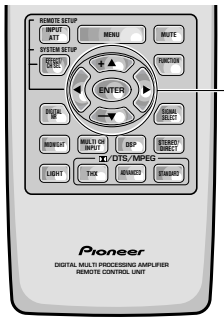
If you don't want to make any settings go can exit this setup. To exit the SYSTEM SETUP MENU and on-screen display press SYSTEM SETUP button again.

ASSIGN SETUP MENU

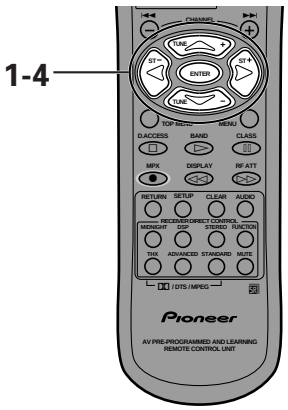
Digital-In Select

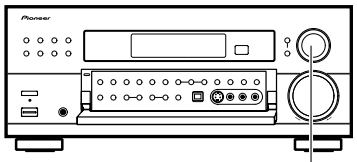
In order to be able to use your digital equipment properly you need to assign digital inputs for each of the digital components you connected. Match the Digital 1 – 4 settings with the digital jacks 1 – 4 in accordance with what is connected to each digital jack. Check the digital jack numbers on the back of the receiver to make certain what component is in which jack (if necessary, see page 13 for more on digital connections). If continuing from the last page go to step 1. If starting fresh, complete steps 1 – 3 in "Setting Up for Surround Sound" (p. 30 – 31) first.

VSX-859RDS



VSX-839RDS





memo

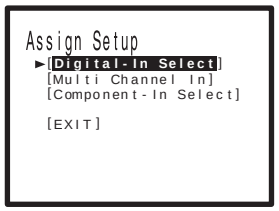
The default settings for the DIGITAL INs are printed next to the digital jacks in parentheses on the back of the receiver.

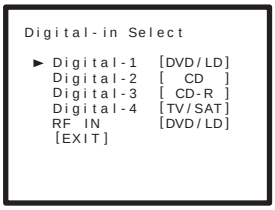
The optical jack on the front panel is set to the VIDEO input on the MULTI JOG dial. It can't be assigned.

1 "Digital In" should be selected (if it isn't use the ▲/▼ buttons to select it).

See "Setting Up for Surround Sound" on p. 30 – 31 if you need more information.

Press the ENTER button.





2 The "Digital-1" ("Digi-1" on the front panel) should be selected. To change the digital input press ENTER and it will start to flash on the receiver's display.

If you want leave it as is, use the ▲/▼ buttons to move on to DIGITAL IN 2 and then the other Digital In settings.

3 Use the ▲/▼ buttons (or the MULTI JOG dial) to choose the input function that matches the component hooked up to that digital terminal. Press ENTER when you've matched the two.

The possible choices include: DVD/LD, TV/SAT, CD, CD-R/TAPE 1/MD, VCR 1, VCR 2. You cannot assign digital inputs to the TUNER, VIDEO and TAPE 2 MONITOR functions.

If you assign a function (for example DVD/LD) that was previously assigned to a different Digital In the first Digital In will automatically revert to an OFF setting. This is because one function cannot be assigned twice.

Pressing ENTER moves you to the next DIGITAL IN. Repeat steps 2 & 3 until all the Digital Ins are set.

4 When you've finished assigning digital ins select EXIT ("Dig-In End" on the front panel) with the ▲/▼ buttons (or the MULTI JOG dial) and press ENTER to go to "Multi In Set".

If you want to change a setting before proceeding simply use the arrow buttons to go back.

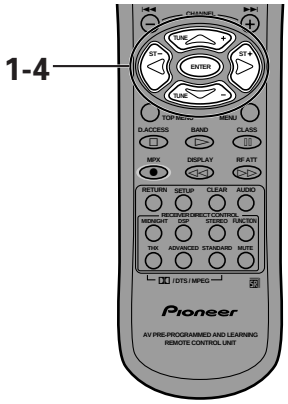
SET UP

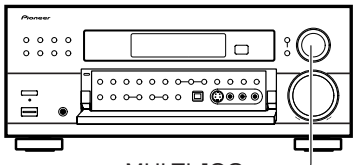
Multi Channel In setting

For most people this setting will not be necessary, if this is the case for you go on to the next setup. If you have a Multi Channel external decoder you can choose whether to have the sound level set to BYPASS, which bypasses the level adjust circuit or set to ADJUST, which goes through the level adjust circuit. If continuing from "Digital In Select" go to step 1. If starting fresh, complete steps 1 – 3 in "Setting Up for Surround Sound" (p.30 – 31) first.

VSX-859RDS

VSX-839RDS

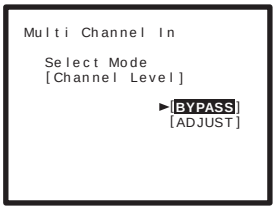




1 "Multi Channel In" ("Multi In Set" on the front panel) should be selected (if it isn't use the ▲/▼ buttons, or the MULTI JOG dial, to select it).

See "Setting Up for Surround Sound" on p. 30 – 31 if you need more information.

Press the ENTER button. This information will be displayed.



2 Use the ▲/▼ buttons (or the MULTI JOG dial) to select the setting you want, BYPASS or ADJUST.

ADJUST: Use the ADJUST setting when you want to be able to control each channel level individually.

BYPASS: This setting is good for getting the cleanest possible signal. In this setting you won't be able to change each channel individually.

We recommend using BYPASS and the default setting is BYPASS.

3 Press the ENTER button.

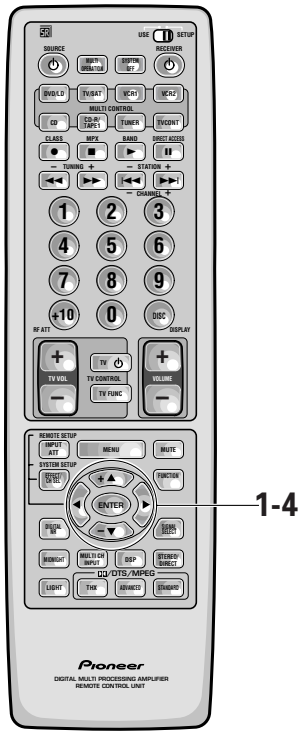
You will go to "Assign End".

4 Press ENTER again and move on to "Surround Set" (the Surround Setup Menu) for the VSX-839RDS. For the VSX-859RDS you will go to the "Component In Select" setting.

Component In Select setting (VSX-859RDS only)

This feature is only included on the VSX-859RDS. For most people this setting will not be necessary, if this is the case for you go on to the next setup. If you hooked up equipment with component video you need to assign the terminals for the devices you connected.

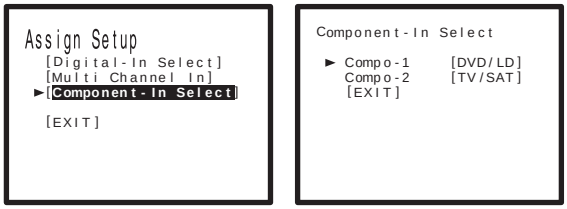
VSX-859RDS



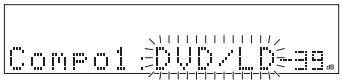
1 Select “Component In Select” using the ▲/▼ buttons (if continuing from the last set up, it should already be selected).

See “Setting Up for Surround Sound“ on p. 30 – 31 if you need more information.

Press the ENTER button.



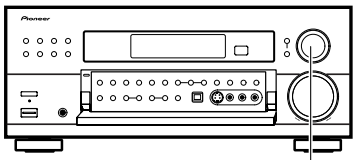
2 Choose “Compo 1” or “Compo 2” using the ▲/▼ buttons. To change the component video function press ENTER and the function will start to flash on the receiver's display.



3 Use the ▲/▼ buttons to choose the input function that matches the component hooked up to that terminal. Press ENTER when you've matched the two. The receiver will enter the information and automatically go on to the next setting.

The possible choices include: DVD/LD, TV/SAT, VCR 1, VCR 2. You cannot assign digital inputs to the TUNER, VIDEO, CD, PHONO, CD-R/TAPE 1/MD, and TAPE 2 MONITOR functions.

If you assign a function (for example DVD/LD) that was previously assigned to a different Component In the second Component In will automatically revert to an OFF setting. This is because one function cannot be assigned twice.



4 When you’ve finished assigning component ins select EXIT (“Comp In End” on the front panel), if not already selected. Press ENTER to move to the “Surround Set” set up.

If you want to change a setting before proceeding simply use the arrow buttons (or MULTI JOG dial) to go back.

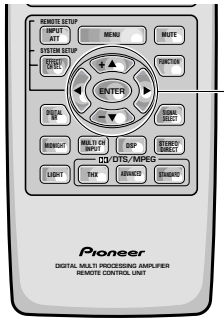
SET UP

SURROUND SETUP MENU

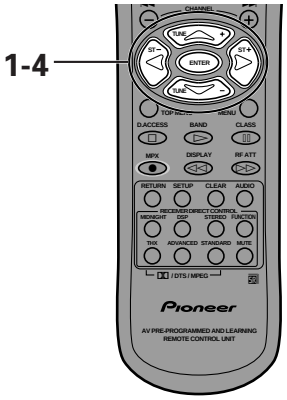
Speaker Setting

Starting from this procedure use the SURROUND SETUP menu. To access the menu follow steps 1 – 3 on p. 30 – 31 and in step three choose SURROUND SETUP (Surround Set is shown on the receiver's display). The steps below show you how to specify the type of speakers you connected. Use the ▲/▼ buttons (or the MULTI JOG dial) to make a selection from the on-screen menus, and use the ENTER button to register the information.

VSX-859RDS

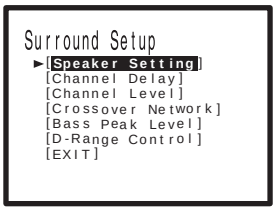


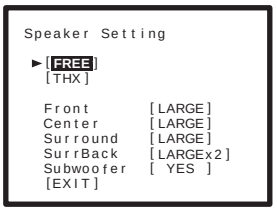
VSX-839RDS



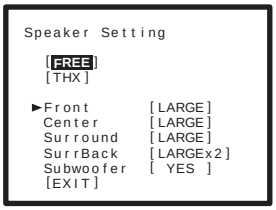
1 "Speaker Setting" ("Speaker Set" on the front panel) appears in the display. Press ENTER button.

See "Setting Up for Surround Sound" on p. 30 – 31 if you are unsure how to get to the "Speaker Setting" menu.





2 Select either the FREE or THX speaker setting mode with the ▲/▼ buttons then press ENTER.



To specify each speaker individually select FREE.

If you connected a complete set of THX speakers select THX and skip the SURROUND BACK part of step 3 (VSX-859RDS only).

3 Specify the type of speakers you connected. See the explanations below for the meaning of each size.

① Press ENTER. Use the ▲ or ▼ buttons (or MULTI JOG dial) to move the cursor to the speaker you want to adjust.

② Press ENTER to select that speaker. The speaker name will flash in the receiver's display.

③ Press ▲ or ▼ to move the setting to LARGE, SMALL, or NO depending on the size of your speakers (you can't select NO for the FRONT speakers and the SURROUND BACK speakers have a few more settings). See the next page for detailed explanations.

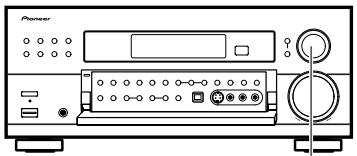
④ Press ENTER.

⑤ Repeat ② – ④ for each speaker.

Depending on your choices the sound will be routed differently, read below for detailed explanations.

FRONT (default setting is LARGE)

- Select SMALL to send bass frequencies to the subwoofer.



- Select LARGE if your speakers will reproduce bass frequencies effectively or if you did not connect a subwoofer.

(If you select SMALL for the front speakers the subwoofer will automatically be set to YES. Also, the center and surround speakers cannot be set to LARGE if the front speakers are set to SMALL. In this case, all bass frequencies are sent to the subwoofer.)

CENTER (default setting is LARGE)

- Select LARGE if your speaker will reproduce bass frequencies effectively.
- Select SMALL to send bass frequencies to the other speakers or the subwoofer.
- If you did not connect a center speaker select NO. In this case, the center channel is output from the front speakers.
- If the front speakers are set to SMALL the CENTER speaker will automatically set to SMALL.

SURROUND (default setting is LARGE)

- Select LARGE if your speakers will reproduce bass frequencies effectively.
- Select SMALL to send bass frequencies to the other speakers or the subwoofer.
- If you did not connect SURROUND speakers select NO. In this case, the sound of the surround channels is output from the front and center speakers.
- If the FRONT speakers are set to SMALL, the SURROUND BACK speakers will automatically be set to SMALL.

SUBWOOFER (default setting is YES)

- Select YES if you connected a subwoofer.
- If you did not connect a subwoofer select NO. In this case, the bass frequencies are output from the front or surround speakers.
- Choose the PLUS setting if you want stronger reproduction of deep bass sounds.
- If you select PLUS the bass frequencies that would normally come out the front and center speakers are all routed to the subwoofer.

SURROUND BACK (default setting is LARGE X2) VSX-859RDS only

NOTE: In order to use SURROUND BACK speakers you need to hook them up through an external amplifier (see p. 19, 21 for more on this).

- Select the number of SURROUND BACK speakers you have. You can choose one speaker, two or none. The one speaker setting will just be shown as just the size (for example, SMALL) while the two speaker setting will be shown as X2.
- If the FRONT speakers or the SURROUND speakers are set to SMALL, the SURROUND BACK speakers will automatically be set to SMALL.
- Select LARGE if your speakers will reproduce bass frequencies effectively.
- Select SMALL to send bass frequencies to the other speakers or subwoofer.
- If you did not connect surround back speakers select NO. In this case no sound will be output to the SURROUND BACK CHANNELS.
- If you choose THX in step 2 then the SURROUND BACK speakers can only be set to SMALL (or NO).

memo

If you have a subwoofer and like lots of bass, it may seem logical to select LARGE for your FRONT speakers and leave the subwoofer selected. This may not, however, yield the best bass results.
Depending on the size and shape of your room you may actually experience a decrease in the amount of bass due to what is called "low frequency cancellations." If you have a subwoofer, listen to the bass response with the FRONT speakers set to LARGE and SMALL alternatively and let your ears judge which sounds best.
The safest option in this case is to route all the bass sounds to the subwoofer by selecting SMALL for the FRONT speakers.

4 Select EXIT ("Sp Set End" on the front panel) with the ▲/▼ buttons and press ENTER to go to the "Channel Delay" setup.

Next, proceed to "Channel Delay" on the next page.

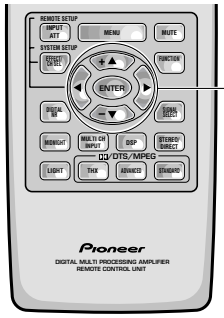
If you want to change a setting before proceeding

use the arrow buttons (or MULTI JOG dial) to go back.

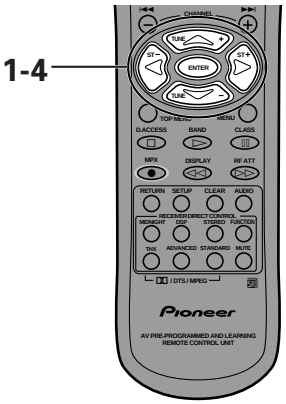
Channel Delay

Adding a slight delay to some speakers is necessary to achieve a surround sound effect. You need to figure out the distance from your listening position to your speakers to add the proper delay. The following steps show you how to set the delay time for each channel by specifying the distances from your listening position to each speaker. Once you specify the speaker distances, the receiver calculates the correct delay times automatically. If continuing from "Speaker Setting" go to step 1. If starting fresh, complete steps 1 – 3 in "Setting Up for Surround Sound" (p. 30 – 31) first.

VSX-859RDS



VSX-839RDS

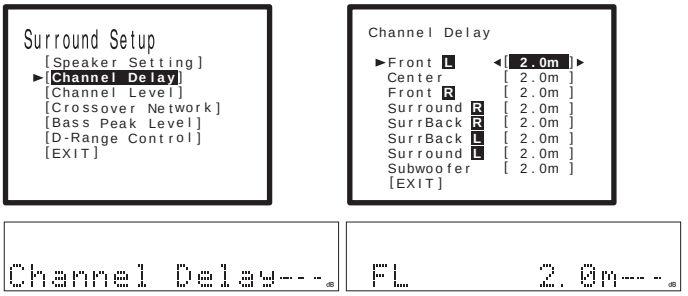


1 Select "Channel Delay" with the ▲/▼ buttons or MULTI JOG dial (if continuing from the last set up, it should already be selected).

See "Setting Up for Surround Sound" on p. 30 – 31 if you are unsure how to do this.

Press the ENTER button.

• The default setting is 2 m.



2 Press ENTER.

The distance of the first speaker will flash in the receiver's display

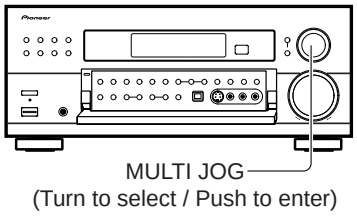
3 Specify the distance from your listening position to each speaker using the commands below.

① Use the ▲/▼ buttons to adjust the speaker distance in 0.1 meter increments from 0.1 to 9 meters.

The default setting is 2 m.

② Press ENTER.

③ Repeat steps 2 and 3 for the rest of the speaker settings.



4 When you've finished the last setup and pressed ENTER, EXIT ("Ch Delay End" on the front panel) should be selected. Press ENTER button again to send the information to the receiver and go to the "Channel Level" setup.

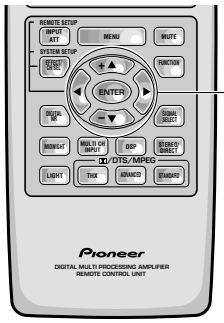
If you want to change a setting before proceeding

use the arrow buttons (or MULTI JOG dial) to go back.

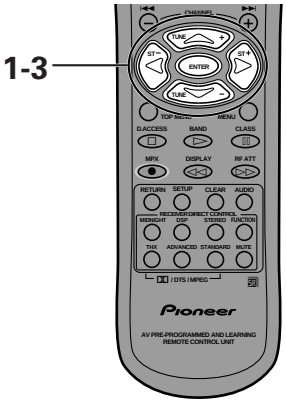
Channel Level

The following steps show you how to balance the sound output level of your speakers. Proper speaker balance is essential for obtaining high quality surround sound. If continuing from "Channel Delay" go to step 1. If starting fresh, complete steps 1 – 3 in "Setting Up for Surround Sound" (p. 30 – 31) first.

VSX-859RDS



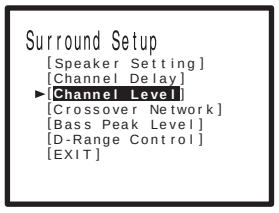
VSX-839RDS

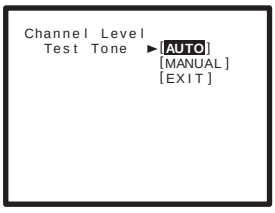


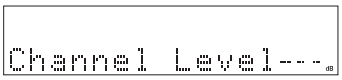
1 Select "Channel Level" (if continuing from "Channel Delay", it will already be selected).

See "Setting Up for Surround Sound" on p. 30 – 31 if you are unsure how to do this.

Press the ENTER button.







2 Select a TEST TONE mode.

① Press ▲/▼ to move the cursor to AUTO or MANUAL.

② Press ENTER to start the test tone.

AUTO (automatic TEST TONE)

This mode switches the test tone between each speaker automatically.

The test tone is output in the following order (SBL & SBR are only for the VSX-859RDS):

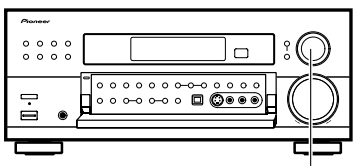
FL → CT → FR → SR → (SBR) → (SBL) → SL → SW → FL

MANUAL (manual TEST TONE)

This mode lets you switch the test tone between each speaker manually. You can use this mode when you want to balance the speaker levels by ear at a more leisurely pace.

The test tone is output in the following order (SBL & SBR are only for the VSX-859RDS):

FL → CT → FR → SR → (SBR) → (SBL) → SL → SW → EXIT → FL

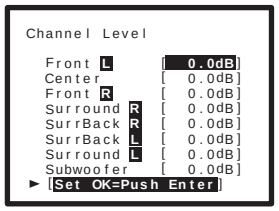


MULTI JOG
(Turn to select / Push to enter)

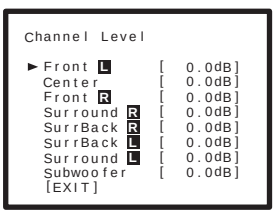
3 After pressing ENTER it will take a moment for the volume to get to the reference position (0 dB) and the TEST TONE will be output.

These settings will be displayed on your TV.

AUTO



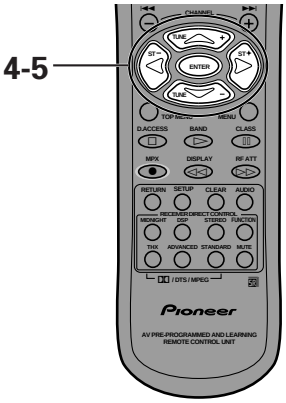
MANUAL



SET UP

VSX-859RDS

VSX-839RDS



Please Wait -39dB

Lvl.OK=ENTER -39dB

4 Adjust speaker levels so that you hear the test tone at the same volume from each speaker when seated in your main listening position.

Note: The volume of the subwoofer tends to sound lower than it actually is, you may need to raise its level after testing the sound with actual soundtracks.

In AUTO mode

The receiver will automatically cycle through the speakers emitting a test tone from each one. It will continue to do this until you press ENTER to signify you have finished your adjustments. It will again take a moment as the MASTER VOLUME returns to its original position.

In MANUAL mode

① Press ENTER

② Press the ▲/▼ buttons to adjust the level of the speaker outputting the TEST TONE.

③ Press ENTER again to input the information and move to the next channel.

④ Repeat ①, ② and ③ for each speaker.

⑤ When you're finished select EXIT. it will again take a moment as the MASTER VOLUME returns to its original position.

If you are using a Sound Pressure Level (SPL) meter

Take the readings from your main listening position and adjust the level of each speaker to 75 dB SPL (C-weighted/slow mode).

5 Press ENTER to go to the "Crossover Network" setup menu.

If you want to change a setting before proceeding

use the ▲/▼ buttons (or MULTI JOG dial) to go back.

memo

When sounding the TEST TONE for the SURROUND BACK speakers you must use the external amplifier you hooked up with your SURROUND BACK (see p. 4, 19, 21, 36-37) so the amplifier must be on and have the volume turned up (VSX-859RDS only).

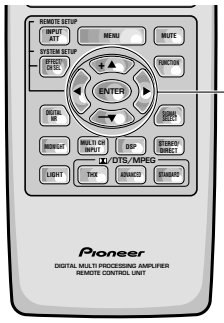
It is possible to set channels levels independently for DD/dts/MPEG, STEREO, MULTI CHANNEL IN and each DSP mode for listening-once purposes (see p. 48) but if you do so these levels will remain in DD Surround/dts setup mode unless put back to zero. They will show up the display in step 3.

Note that it is also possible to set channel levels temporarily. Then follow the same procedure as explained on this page. This function is designed to be used when you want to change the levels temporarily to raise the level of one channel. Using this method you can set speaker levels in different modes, such as, STEREO, and each DSP mode, independently. You should return the settings to their original state when done. Doing the set up procedures on this page will erase any temporary/independent level settings that have been made.

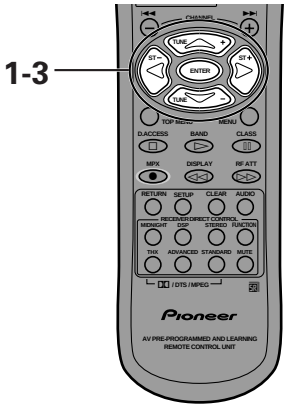
Crossover Network

If you're using small speakers that can't reproduce good bass, you should have set those speakers to SMALL in the Speaker Setting section. This causes the bass to be routed to other speakers in your system which can handle it either the subwoofer or speakers set to LARGE in Speaker Setting. The Crossover Network setting lets you specify a frequency, below which, sound will be routed to these other speakers.
If continuing from "Channel Level" go to step 1. If starting fresh, complete steps 1 – 3 in "Setting Up for Surround Sound" (p. 30 – 31) first.

VSX-859RDS



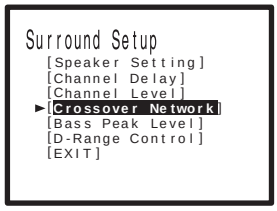
VSX-839RDS

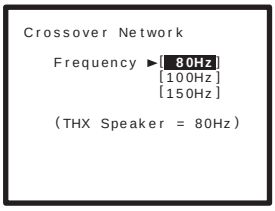


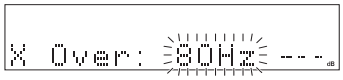
1 Select "Crossover Network" ("Crossover" on the front panel) with the ▲/▼ buttons or MULTI JOG dial (if continuing from CHANNEL LEVEL, it will already be selected).

See "Setting Up for Surround Sound" on p. 30 – 31 if you are unsure how to do this.

Press the ENTER button.







• The default setting is 80 Hz.

2 Specify the crossover frequency for your small speakers.

Setting speakers to SMALL in "Speaker Setting" sends the respective channel's bass frequencies to the subwoofer (or LARGE speakers if you don't have a subwoofer). The present function lets you determine which frequencies will be sent to the subwoofer (or LARGE speakers).

① Use the ▲/▼ buttons to select 80 Hz, 100 Hz, or 150 Hz.

80 Hz (default/THX setting)

Sends bass frequencies below 80 Hz to the subwoofer (or LARGE speakers).

100 Hz

Sends bass frequencies below 100 Hz to the subwoofer (or LARGE speakers).

150 Hz

Sends bass frequencies below 150 Hz to the subwoofer (or LARGE speakers).

Experiment with the different settings to see which sounds best to you.

3 Press ENTER to send the information to the receiver and go to the "Bass Peak Level" setup.

If you want to change a setting before proceeding use the ▲/▼ buttons (or MULTI JOG dial) to go back.

SET UP

Bass Peak Level

The LFE (Low Frequency Effect) channel in Dolby Digital, DTS or MPEG program sources can produce heavy ultra-low bass tones that may exceed the capabilities of your speaker system. The following steps show you how to set a maximum output level for the LFE channel. If continuing from "Crossover Network" go to step 1. If starting fresh, complete steps 1 – 3 in "Setting Up for Surround Sound" (p. 30 – 31) first.

VSX-859RDS

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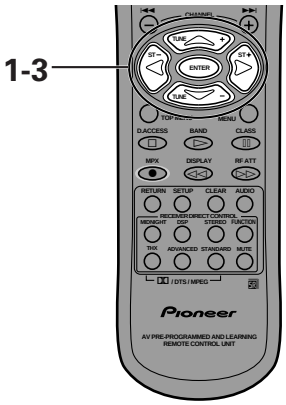
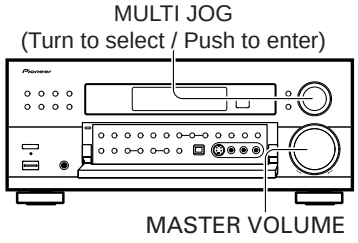
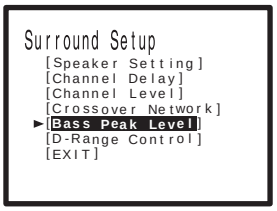


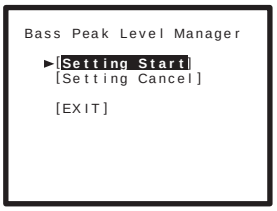


1 Select "Bass Peak Level" ("Bass Level" on the front Panel) with the ▲/▼ buttons or MULTI JOG dial (if continuing from CROSSOVER NETWORK it will already be selected).

See "Setting Up for Surround Sound" on p. 30 – 31 if you are unsure how to do this.

Press the ENTER button.





2 Output the test tone for the LFE channel and specify the peak level.

If your subwoofer has a volume control, set it to the middle position before proceeding.

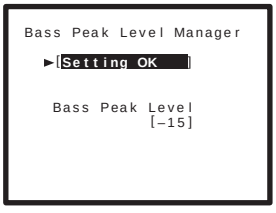
① SETTING START will be selected, press ENTER

The MASTER VOLUME goes to the reference level [MIN (--- dB)]. Then the test tone is output to the subwoofer, front or surround speakers.

② Use the ▲/▼ buttons (or the MULTI JOG dial) to select the BASS PEAK LEVEL. Each press moves the level 1dB in a range of -80dB to +12dB. Gradually increase the level of the LFE channel until the test tone begins to distort. Then go back and leave the level setting at a point just before that.

③ Press the ENTER button.

It takes a few seconds for the MASTER VOLUME to return to its previous position.



3 EXIT ("Bass Peak Level End" on the front panel) should be selected, press the ENTER button to go to the "D-Range Control" setup.

Next, proceed to "Dynamic Range Control" on the next page.

If you want to change a setting before proceeding use the ▲/▼ buttons (or the MULTI JOG dial) to go back.

Dynamic Range Control

This feature makes it possible to enjoy full surround sound effects on Dolby Digital sources even at low volumes. It does this by compressing the dynamic range. Dynamic range is the difference between the loudest and the softest sounds in any given soundtrack. Compressing the range plays sounds so the quieter ones are audible and the louder ones don't get distorted or become overpowering. This feature only applies to Dolby Digital sources but the MIDNIGHT LISTENING mode accomplishes the same end for a variety of sources (see page 53). If continuing from "Bass Peak Level" go to step 1. If starting fresh, complete steps 1 – 3 in "Setting Up for Surround Sound" (p. 30 – 31) first.

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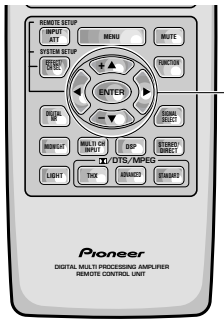
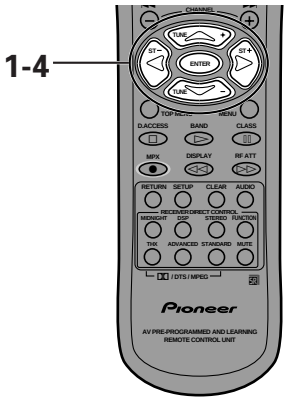
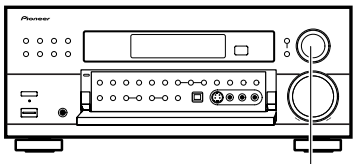


VSX-839RDS

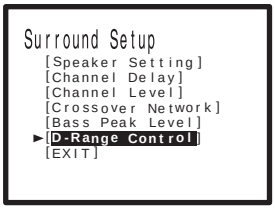


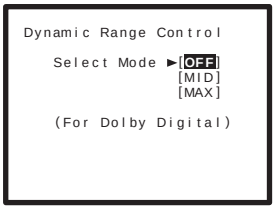


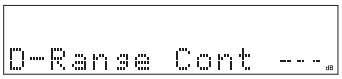
1 Select "D-Range Control" ("D-Range Cont" on the front panel) with the ▲/▼ buttons or MULTI JOG dial (if continuing from BASS PEAK LEVEL, it will already be selected).

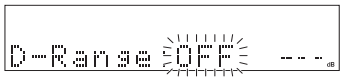
See "Setting Up for Surround Sound" on p. 30 – 31 if you are unsure how to do this.

Press the ENTER button.









- The default setting is OFF.
- If listening at loud volumes we recommend turning the Dynamic Range Control OFF.

2 Use the ▲/▼ buttons to choose OFF, MID or MAX.

3 Press the ENTER button.

If you want to change a setting before proceeding

Choose a new Dynamic Range Control setting using the ▲/▼ buttons (or the MULTI JOG dial).

You may need to experiment with different Dolby Digital sources before you can use the Dynamic Range Control setting to suit your low volume listening needs.

4 "Surr Set End" will appear in the display. Press the ENTER button.

You will go on to the "Rename" tier of the setup menus. This is not necessary for the basic operation of the receiver but lets you customize your system (see p. 87). If you don't want to rename anything at this time use the ▲/▼ buttons (or the MULTI JOG dial) to select "Setup End" and press ENTER.

This setting completes the surround setup.

SET UP

Basic Playback

Sound Modes

The five sound modes on the receiver are explained here. These can be turned on from the front panel or from the remote control.
There are three cinema modes: STANDARD, HOME THX CINEMA, and ADVANCED THEATER. These are designed to be used with multi channel surround sound audio/visual sources (like DVDs and LDs). Intrinsic to home theater, these modes can deliver realistic and powerful surround sound that recreates the movie theater experience. You may need to experiment with them to see which settings suit your home system and personal tastes.
The DSP and STEREO modes are designed to be used with music sources but some DSP modes are also suited for film soundtracks. Again, try different settings with various soundtracks to see which you like.
You must choose one of the three cinema modes or the DSP mode in order to get surround sound. In STEREO mode only the front two speakers, and sometimes the subwoofer (if you have one), are used.

STANDARD modes

This mode is for pure decoding of Dolby Digital, Dolby Pro Logic, DTS and MPEG sources. No special effects are added. It is good for enjoying regular movies/videos that have been recorded in Dolby Digital, Dolby Pro Logic, DTS and MPEG. STANDARD 7.1 is also the basic mode for enjoying sources with SURROUND BACK channels (VSX-859RDS only). For more detailed information see p. 97 – 99. You will only be able to access the second two modes if you have hooked up SURROUND BACK speaker(s). For more detailed information see p. 4, 19, 21, 36 – 37. The display will show you what kind of source (Dolby Digital, DTS, etc.) is being played.

STANDARD

Use this mode with sources that do not have SURROUND BACK channels. If you don't have SURROUND BACK speaker(s) switched on (see p. 36 – 37) this is the only STANDARD mode you will be able to select on the receiver.

STANDARD 7.1 (VSX-859RDS only)

This mode is best for sources with SURROUND BACK channels. You will only be able to access this mode if you have set the SURROUND BACK speakers in the "Speaker Setting" procedure (see p. 36 – 37). Also, this mode will play 5.1 channels sources and other sources through all the speakers you have hooked up, routing some of the sound into your SURROUND BACK channel or channels. STANDARD 7.1 will appear in the display even if you only have one SURROUND BACK speaker hooked up. The display will change according to the source played.

STANDARD AUTO (VSX-859RDS only)

In this mode the receiver will automatically select the appropriate STANDARD mode and use it to play the soundtrack. You will only be able to access this mode if you have set the SURROUND BACK speaker(s) in the "Speaker Setting" procedure (see p. 36 – 37). If the source has a SURROUND EX marker then the receiver will automatically go into STANDARD 7.1 mode. This mode is best if you are unsure which of the above STANDARD modes to use. The display will change according to the source played.

HOME THX CINEMA modes

THX is a set of technical standards created by Lucasfilm, Ltd. These standards were designed to emulate a film sound stage and thus reproduce, with the greatest possible accuracy, the soundtrack intended by the filmmakers. To get THX sound use one the three modes explained below. You will only be able to access the second two modes if you have hooked up SURROUND BACK (VSX-859RDS only) speakers. For more detailed information see p. 4, 19, 21, 36 – 37. This mode is best if you are unsure which of the above THX modes to use. The display will show you what kind of source (Dolby Digital, DTS, etc.) is being played.

THX CINEMA

Use this mode to get THX sound with sources that do not have SURROUND BACK channels. If you don't have SURROUND BACK speaker(s) switched on (see p. 36 – 37), this is the only THX mode you will be able to select on the receiver.

THX SURROUND EX (VSX-859RDS only)

This mode is specifically for using your SURROUND BACK channels with either SURROUND EX sources or 5.1 channel sources. You will only be able to access this mode if you have set the SURROUND BACK speaker(s) in the SPEAKER SETTING procedure (see p. 36 – 37). If the source you are using is a 5.1 source then this mode will route some of the sound to the SURROUND BACK channel(s). If the source you are using does not have a SURROUND EX marker or is not a 5.1 source then the display will automatically change to THX CINEMA.

THX AUTO (VSX-859RDS only)

In this mode the receiver will automatically select the appropriate THX mode and use it to play the soundtrack. You will only be able to access this mode if you have set the SURROUND BACK speaker(s) in the SPEAKER SETTING procedure (see p. 36 – 37). If the source has a SURROUND EX marker then the receiver will automatically go into THX SURROUND EX mode. This mode is best if you are unsure which of the above THX modes to use.

ADVANCED THEATER modes

The Advanced Theater mode is a newly designed system for enhancing movie soundtracks and other audio-visual sources. It incorporates the use of DTS, Dolby Digital as well as MPEG into its sound processing. These functions switch on automatically when the source you are playing is encoded with DTS, Dolby Digital or MPEG. There are four Advanced Theater settings that use DSP (Digital Signal Processing) to create different types of sound environments. If you have SURROUND BACK speakers or (even just one) speaker switched on (see p. 36 – 37) then 7.1 will appear after the name of all of these modes in the display on the receiver. The display will show you what kind of source (Dolby Digital, DTS, etc.) is being played.

MUSICAL

This mode is primarily for music and adds a spacious feeling to the sound. A long delay time of reflected sounds, provides resonant tones which emulate a concert hall.

DRAMA

This mode is designed for movies with a lot of dialog. The elements of dialog are enhanced, making the characters seem more real. The mode also compresses the dynamic range somewhat so loud sounds do not overpower softer ones (compare this with the MIDNIGHT LISTENING mode explained on p.53).

ACTION

This mode is designed for action movies, which generally use lots of sound effects. The mode enriches the sound to make it more realistic and extends the parameters to pick up high and low sound effects.

5/7-D THEATER

This mode is especially designed to give sound depth to stereo sources. The overall effect builds a dynamic and broad sound space, allowing two-channel (stereo) signals to faithfully imitate a five speaker sound. The mode should be used in conjunction with Dolby Pro Logic for sources bearing the DOLBY SURROUND mark.

memo

When a Dolby Digital soundtrack is played back the Dialog Normalization function of the receiver activates automatically. Dialog Normalization is a Dolby Digital function that establishes the average dialog level for the program source being played. If the receiver's level does not match the average dialog level, first you see "DIAL NORM" flash in the receiver's display and next "OFFSET +4 dB" (as an example) will appear. In this example, the number +4 dB is the difference between the receiver's gain structure and the Dolby Digital average dialog level. To match the average dialog level, subtract or add the OFFSET level. For example, if the OFFSET level is +4 dB, the amplifier's output is 4 dB over the average recorded level.

DSP modes

The DSP (Digital Signal Processing) modes allow you to transform your living room into a variety of different sonic environments when playing either two-channel or multi-channel sources. If you have SURROUND BACK speaker(s) (VSX-859RDS only) switched on (see p. 36 – 37) then 7.1 will appear after the name of all of these modes in the display on the receiver.

HALL 1
Simulates the acoustic effects of a large concert hall. Suitable for classical music. A long delay time of reflected sounds, coupled with reverb effects, let the listener enjoy the dynamic and rich sounds characteristic of concert halls and powerful orchestral performances.

HALL 2
Simulates the acoustic environment of a very resonant concert hall. Rich reverberation and a full sound create the impression of a lively performance space.

JAZZ
Simulates the acoustic effects of a jazz club. Reflected sound is virtually below 100 msec so that the listener can enjoy a live band effect.

DANCE
Simulates the acoustic effects of a dance club. Features a strong bass sound.
Reflected sound delay time is virtually below 50 msec, for the listener to enjoy the visceral power of dance music.

THEATER 1
Reproduces theater sound field effects without losing the localization of each channel. Theater effects can be enjoyed without losing Dolby Digital/ Pro Logic effects when used in combination those formats (with movies bearing the DOLBY SURROUND trademark).

THEATER 2
Simulates the acoustic environment of a theater while maintaining proper localization of each channel.

5/7CH STEREO
Simulates the acoustic environment of a regular stereo while using all the speakers in the system to induce a rich, all-around sound. If you have SURROUND BACK speakers switched on (see p. 36 – 37) then the name of this mode will be 7CH STEREO in the display on the receiver (VSX-859RDS only). If the SURROUND BACK speakers are switched off, then the mode will appear as 5CH STEREO.

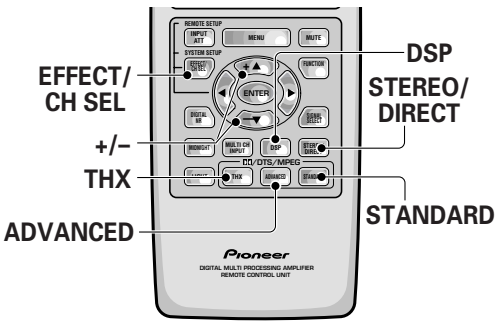
STEREO mode

Use the STEREO mode to enjoy standard (two-channel) stereo sound from the front left and right speakers. This mode is most like the sound reproduction you would get from a regular stereo receiver or amplifier that is not equipped to handled A/V formats as this one is. You might want to use this mode for listening to regular music sources (like CDs) but remember, you will only get sound from your front two speakers (and possibly your subwoofer).

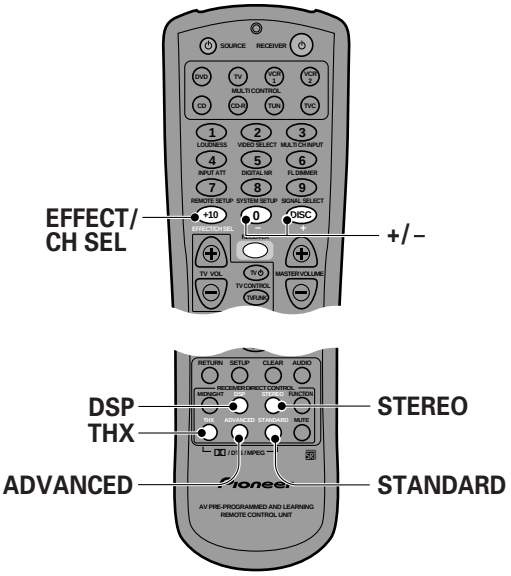
Selecting a Sound Mode

To ensure the best possible surround sound, be sure to complete the set up procedures described in "Setting Up for Surround Sound" (starting on p. 30) before using the sound modes. This is particularly important when using the DD (Dolby) Digital, DTS or MPEG sources . When using the sound modes, using SPEAKERS A will give the best results. If you use SPEAKERS B the sound will be down mixed to the two front B speakers and the surround sound effect for the center, surround and/or surround back speakers will be lost.

VSX-859RDS



VSX-839RDS



1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Select a sound mode.

- For STANDARD ➡ Press STANDARD
  Each press changes the STANDARD mode as follows:
  [When using SURROUND BACK speakers]

  STANDARD → STANDARD 7.1 → STANDARD AUTO → STANDARD

  [When using no SURROUND BACK speakers (VSX-839RDS)]

  STANDARD only

- For HOME THX CINEMA ➡ Press THX (THX CINEMA)
  Each press changes the THX mode as follows:
  [When using SURROUND BACK speakers]

  THX CINEMA → THX SURROUND EX → THX AUTO → THX CINEMA

  [When using no SURROUND BACK speakers (VSX-839RDS)]

  THX CINEMA only

- For ADVANCED THEATER ➡ Press ADVANCED THEATER (ADVANCED)
  Each press changes the ADVANCED THEATER mode as follows:
  [When using SURROUND BACK speakers]

  MUSICAL 7.1 → DRAMA 7.1 → 7-D THEATER ← ACTION 7.1 ← MUSICAL 7.1

  [When using no SURROUND BACK speakers (VSX-839RDS)]

  MUSICAL → DRAMA → 5-D THEATER ← ACTION ← MUSICAL

- For DSP modes ➡ Press DSP (DSP MODE) repeatedly
  Each press changes the DSP mode as follows:
  [When using SURROUND BACK speakers]

  HALL 1 7.1 → HALL 2 7.1 → JAZZ 7.1 → DANCE 7.1 → 7CH STEREO ← THEATER 2 7.1 ← THEATER 1 7.1 ← HALL 1 7.1

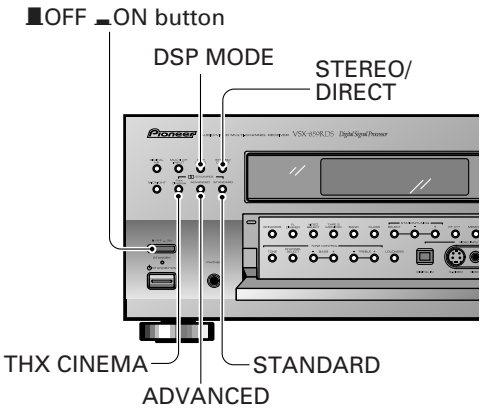
  [When using no SURROUND BACK speakers (VSX-839RDS)]

  HALL 1 → HALL 2 → JAZZ → DANCE → 5CH STEREO ← THEATER 2 ← THEATER 1 ← HALL 1

- For STEREO ➡Press STEREO (STEREO/DIRECT)
  Each press changes the STEREO mode as follows:

  STEREO → DIRECT → STEREO

OPERATION



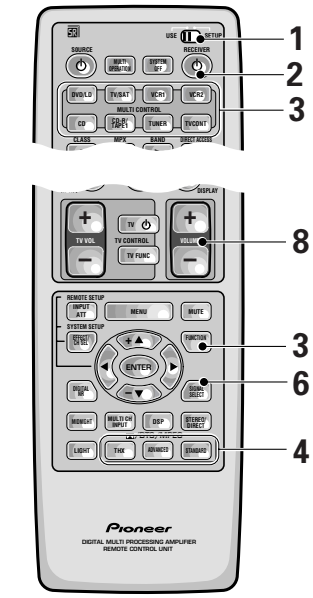
memo

- If you have SURROUND BACK speaker(s) switched on (see p. 36 – 37) then 7-D THEATER and 7CH STEREO will appear as such in the display on the receiver (VSX-859RDS only). If these speakers are not switched on the above two modes will appear as 5-D THEATER and 5CH STEREO.
- The amount of effect in each ADVANCED THEATER mode can be adjusted in the range of 10 to 90 by pressing EFFECT +/– (The default setting is 70). Also, the effect level can be set in each ADVANCED THEATER mode by pressing the EFFECT(+/–) button (see p. 25, 26).
- The amount of effect in each DSP mode can be adjusted in the range of 10 to 90 (the default setting value is 70) by pressing EFFECT +/– (see p. 25, 26).
- 5/7CH STEREO modes cannot be adjusted.

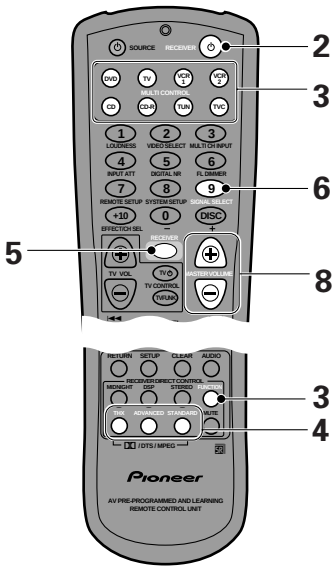
Playing Sources with Dolby Digital, DTS or MPEG Audio

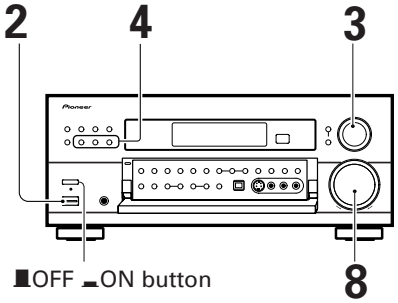
This page covers using your receiver with Dolby Digital, DTS or MPEG audio encoded sources.

VSX-859RDS



VSX-839RDS





1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Turn on the ⏻ RECEIVER.

3 Press the MULTI CONTROL buttons or the FUNCTION button (or turn the MULTI JOG dial) to select the source you want to playback.

The FUNCTION button cycles through the sources in the following order:

DVD/LD → TV/SAT → CD → CD-R/TAPE1 → TUNER → VCR 2 → VCR 1/DVR → VIDEO → (PHONO) VSX-859RDS only

4 Choose a sound mode by pressing THX, ADVANCED THEATER or STANDARD.

The default setting is STEREO.

(For more see "Sound Modes" and "Selecting a Sound Mode" on pages 44 – 48.)

5 For the VSX-839RDS press RECEIVER.

This sets the remote to receiver control mode.

6 Press the SIGNAL SELECT button to select the input signal. Set to AUTO.

(See "Switching Analog and Digital Signal Input" on page 51.)

7 Start playback of the component you selected in step 3.

8 Adjust the volume by using the volume buttons on the remote control or the MASTER VOLUME on the front panel.

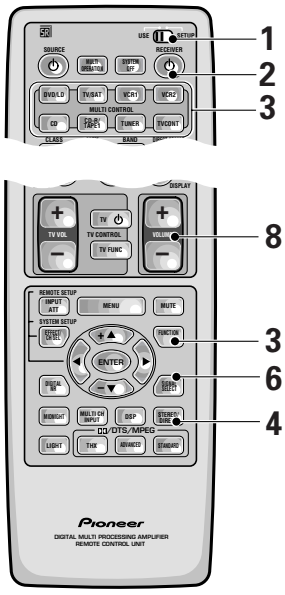
memo

- We recommend using different modes for different types of DTS material. For watching movies, the THX or ADVANCED THEATER setting should provide the best results. For listening to music, the STANDARD, DIRECT, STEREO, or DSP modes should serve the listener best.
- Make sure you connect your DVD/LD or LD player with the RF demodulator. If your player has an DD RF output this will ensure you can use all LDs. Refer to p. 14.
- Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player.
- If you are not able to get sound from the receiver the problem may well lie with the SIGNAL SELECT button. You need to make sure the input is set to the appropriate ANALOG or DIGITAL setting. Refer to p. 51 for more on this.

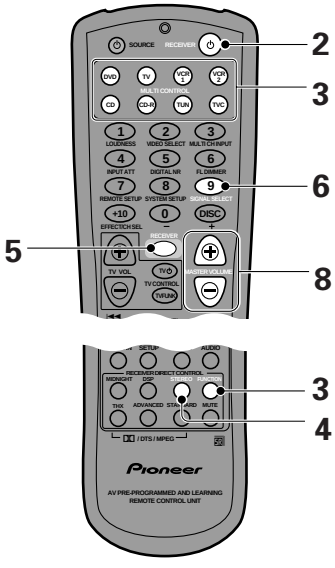
Playing Stereo Sources

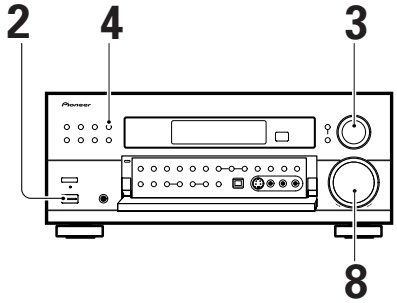
The following instructions show you how to use the receiver for stereo audio or audio-visual.

VSX-859RDS



VSX-839RDS





1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Turn on the ⏻ RECEIVER.

3 Press the MULTI CONTROL buttons or the FUNCTION button (or turn the MULTI JOG dial) to select the source you want to playback.

The FUNCTION button cycles through the sources in the following order:

DVD/LD → TV/SAT → CD → CD-R/TAPE1 → TUNER → VCR 2 ← VCR 1/DVR ← VIDEO ← (PHONO) VSX-859RDS only

4 Press the STEREO/DIRECT button to select the stereo mode.

The STEREO indicator lights on the display.

5 For the VSX-839RDS press RECEIVER.

This sets the remote to receiver control mode.

6 Press the SIGNAL SELECT button to select the input signal. Set to AUTO.

(See "Switching Analog and Digital Signal Input" on page 51.)

7 Start playback of the component you selected in step 3.

8 Adjust the volume by using the VOLUME buttons on the remote control or the MASTER VOLUME on the front panel.

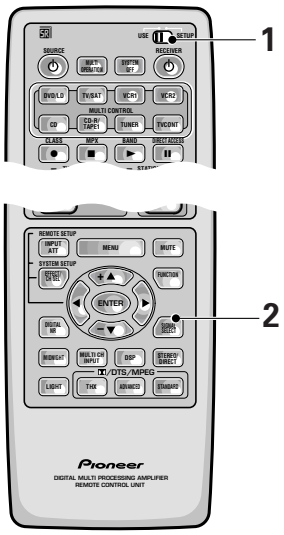
memo

If you are not able to get sound from the receiver the problem may well lie with the SIGNAL SELECT button. You need to make sure the input is set to the appropriate ANALOG or DIGITAL setting. Refer to p. 51 for more on this.

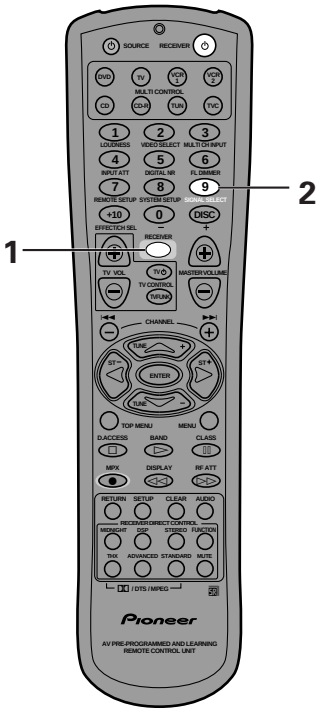
Switching Analog and Digital Signal Input

This switch moves the input fed to the receiver between analog and digital sources. You need to take special care to switch to the appropriate input, when necessary. For example, the switch would have to be on DIGITAL to use DOLBY DIGITAL, DTS or MPEG surround sound but it would have to be on ANALOG to record to the analog out jacks on the receiver. The default setting is AUTO (priority is given to a digital signal, if there is one).

VSX-859RDS



VSX-839RDS



1 For the VSX-859RDS set the slide switch on the remote control to USE.
For the VSX-839RDS press RECEIVER.

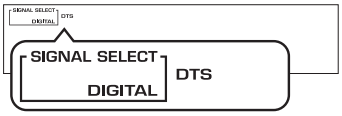
2 Press the SIGNAL SELECT button to select the input signal corresponding to the source component.

Each press switches the signal in the order below:

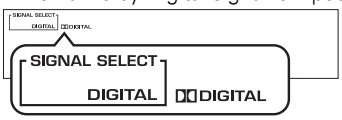
AUTO → ANALOG → DIGITAL → (DD RF) VSX-859RDS only → AUTO

3 If SIGNAL SELECT is set to DIGITAL, DD DIGITAL lights when a Dolby Digital signal is input; DTS lights when a DTS signal is input; MPEG lights when a MPEG signal is input.

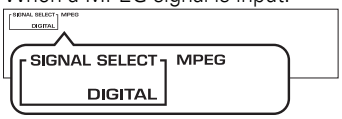
When a DTS signal is input.



When a Dolby Digital signal is input.



When a MPEG signal is input.



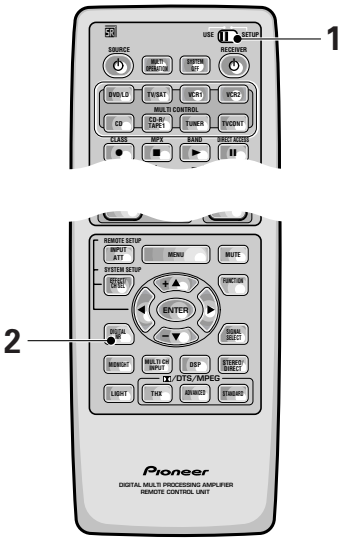
memo

- In the AUTO setting, SIGNAL SELECT gives priority to the signal in the following order: DD RF (VSX-859RDS only), DIGITAL, ANALOG.
- If the Digital-In Select (see p. 33) choices are set to OFF, the SIGNAL SELECT will default to ANALOG.
- Because the audio from a karaoke microphone and LD recorded with analog audio only is not output from the digital output, set SIGNAL SELECT to ANALOG.
- This receiver can only playback Dolby Digital, PCM (32kHz, 44kHz, 48kHz, and 96kHz), DTS and MPEG digital signal formats. If you have some equipment that outputs digital audio in a format other than these you'll have to connect and playback via the receiver's analog inputs (make sure that SIGNAL SELECT is set to ANALOG).
- When an LD or CD with DTS is played back with the SIGNAL SELECT set in ANALOG, digital noise caused by playing back the DTS directly (with no decoding) is output. To prevent noise, you need to make digital connections (See pages 13 – 15) and set SIGNAL SELECT to DIGITAL or AUTO.
- Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player.
- The levels between analog and digital sources may vary so be careful with volume levels when switching between these two.

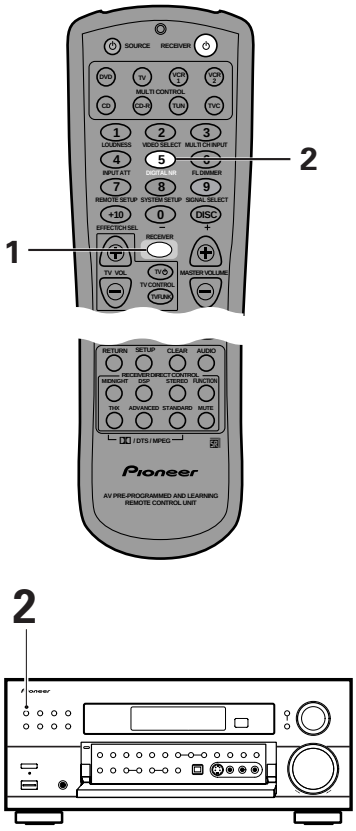
Reducing Noise During Playback

To reduce extraneous noise switch on DIGITAL NR. This noise reduction can be used with every mode except MULTI CHANNEL IN and DIRECT.

VSX-859RDS



VSX-839RDS



1 For the VSX-859RDS set the slide switch on the remote control to USE. For the VSX-839RDS press RECEIVER.

2 Press the DIGITAL NR button on the remote control or on the front panel.

Each press switches the DIGITAL NR between on or off.

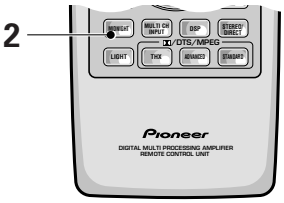
memo

- In cases described below, noises may not be reduced even if DIGITAL NR is on.
  - Sudden noise
  - Extremely loud noise
  - Signals that do not contain many high frequencies
- DIGITAL NR is effective at and above levels shown below for each source.
- STEREO
  - analog input ..... 10 -18 dB
  - digital input ..... 10 -15 dB
  - AM/FM tuner ..... 10 -15 dB
- DSP/ADVANCED/STANDARD/96kHz stereo ..... 6 -10 dB
- Depending on the condition of the source, there may not be a noticeable improvement in the quality of the sound.
- You can't use the DIGITAL NR mode with the THX, MULTI CH IN or DIRECT mode.
- If you press DIGITAL NR when in DIRECT mode the receiver switches to STEREO mode.

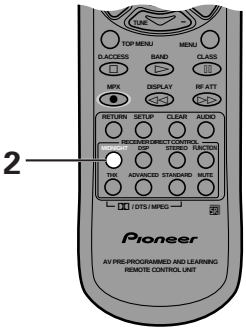
Listening in Midnight Mode

This feature makes it possible to get excellent surround sound effects even when listening at low volumes. It can be used with a variety of surround sound sources and plays soundtracks so that the quieter sounds are audible while the noisier sounds don't become overly loud or distorted. It does this by bringing all the sounds in a given soundtrack closer together in volume. Compare this feature with the D-Range Control (only for Dolby Digital sources) on page 43.

VSX-859RDS



VSX-839RDS



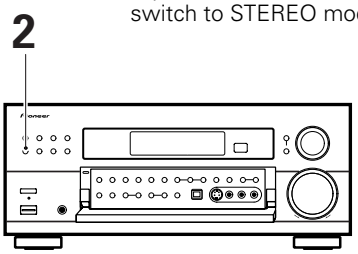
1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Press the MIDNIGHT button.

Each press switches the MIDNIGHT LISTENING mode between on or off.

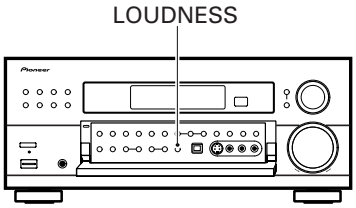
memo

- The effect adjusts itself automatically in accordance with the volume level.
- You can't use the MIDNIGHT LISTENING mode with the THX, MULTI CH IN or DIRECT mode.
- If you use MIDNIGHT in DIRECT mode the receiver will switch to STEREO mode.



Listening the Loudness Mode

The LOUDNESS mode allows you to boost the bass in a signal. It is useful for listening to music at low volumes.



Press the LOUDNESS button.

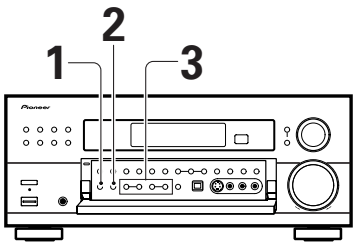
Each press switches the LOUDNESS mode between on and off.

memo

- You can't use the LOUDNESS mode with the MULTI CH IN, THX or DIRECT mode.
- If you press LOUDNESS in DIRECT mode the receiver will switch to STEREO mode.

Adjusting Bass and Treble

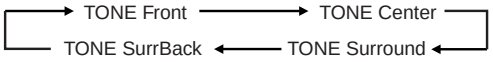
You can use BASS +/– or TREBLE +/– buttons to adjust the low and high frequencies for each individual set of speakers. If the receiver is in STEREO mode you can only adjust the FRONT speakers. In a surround mode (STANDARD, ADVANCED THEATER, etc.) you can adjust the FRONT, CENTER, SURROUND and SURROUND BACK speakers. The TONE button can also be used to bypass the tone circuitry (see #18, p. 23).



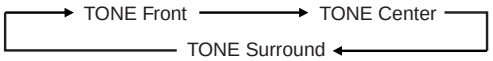
1 Press the TONE button on the front panel to put the receiver in TONE ON mode.

2 Press the CHANNEL SELECT button on the front panel to cycle through the different tone adjust modes.

The button cycles though the possibilities in the following order:



[When not using SURROUND BACK speakers/VSX-839RDS]



3 Use the BASS or TREBLE (+/–) buttons to adjust the low or high frequencies of each channel.

A few seconds after you finish adjusting the tone the receiver will revert to the sound mode it was in at the beginning of the process.

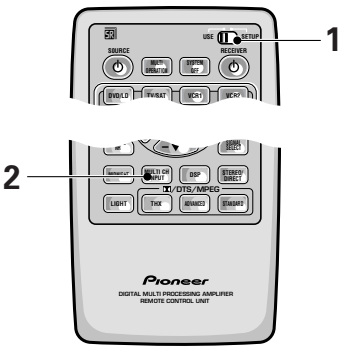
memo

- The tone can be adjusted in a range of ±6 dB.
- The tone cannot be adjusted in THX and MULTI CH IN modes.
- When you press the TONE button in DIRECT mode the receiver switches to STEREO mode and TONE ON appears in the display. You can now change the TONE setting (note the receiver is no longer is DIRECT mode).

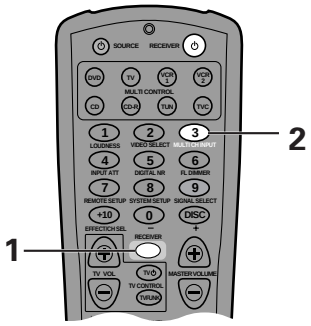
MULTI CHANNEL IN Playback

MULTI CH IN allows you to connect an external decoder to enjoy certain types of specialized discs. To use MULTI CH playback follow the instructions below.

VSX-859RDS



VSX-839RDS



1 For the VSX-859RDS set the slide switch on the remote control to USE. For the VSX-839RDS press RECEIVER.

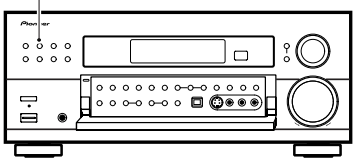
2 Press the MULTI CH INPUT button on the remote control or the front panel.

Each press switches the input between the previous mode and MULTI CH IN.

memo

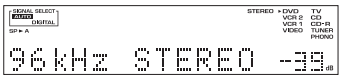
When MULTI CH IN is selected only the volume level and channel levels can be set (see p. 34). All of this unit's other features (DSP modes, ADVANCED THEATER modes, DIRECT mode, TONE controls, etc.), as well as the TUNER and PHONO (VSX-859RDS only) modes, cannot be used. Also, all speaker settings and other setup settings have no effect.

MULTI CH INPUT



96kHz 24 bit Performance

This receiver is capable of playing back advanced DVD discs which are recorded in 96 kHz/24 bit format (these are all stereo discs) and any source recorded in 96 kHz and up to 24 bit. The receiver will automatically read the format of the source and play accordingly (of course the SIGNAL SELECT will have to set to AUTO or DIGITAL to read the DVD soundtrack). When the receiver plays a 96 kHz disc "96 kHz" and "STEREO" will appear in the display.



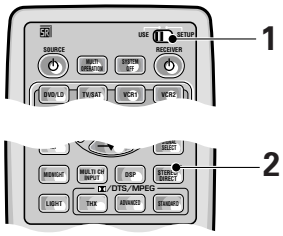
memo

- When a 96 kHz/24 bit disc is played back the volume may be louder than that of a normal disc.
- Some DVD players cannot play 96 kHz/24 bit discs. Check the manual of your DVD player to make sure.
- During this playback the player enters the STEREO mode and you can use the controls available in STEREO mode (LOUDNESS, MIDNIGHT, TONE controls, etc., see p. 53 – 54).
- With 96 kHz/24 bit discs you are able to use MULTI CH IN playback and the TAPE 2 MONITOR.
- In 96 kHz/24 bit mode you can't use the STANDARD, ADVANCED THEATER, THX or DSP modes.

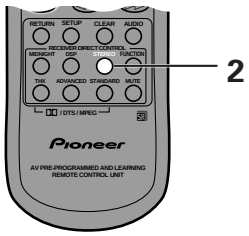
Direct Playback

This mode is for playing back a sound source in its purest form, no tone adjustments or other sound modes can be used.

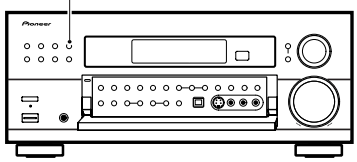
VSX-859RDS



VSX-839RDS



STEREO/DIRECT



1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Use the STEREO/DIRECT button to alternate between STEREO or DIRECT mode (you can also use the STEREO/DIRECT button on the front panel).

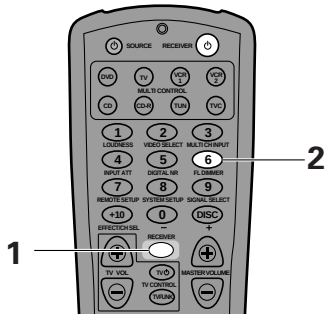
The DIRECT mode will give you the most accurate reproduction of two channel (stereo) sources but won't let you add any effects to the sound.

memo

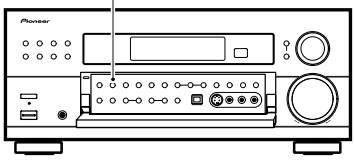
- None of the tone controls or other sound modes can be used with DIRECT playback.
- If the receiver is in a different mode than STEREO to start with the first push of the STEREO button will put it in STEREO mode. After that the button will toggle the receiver between STEREO and DIRECT mode.
- For more on this button see the explanation of STEREO mode on p. 46, 47, 50.

Adjusting the Brightness of the Display

Use the FL DIMMER button to adjust the brightness of the fluorescent display (FL=fluorescent display).



FL DIMMER



1 For the VSX-839RDS press RECEIVER.

2 Press the FL DIMMER button (for VSX-859RDS on the front panel only).

Four levels of brightness ranging from very dim to very bright can be selected. Each press changes the brightness of the display. When rotating through the options, the default brightness can also be selected.

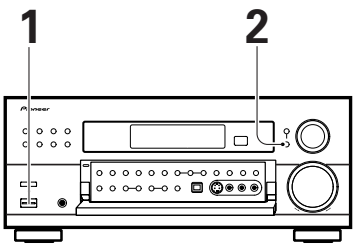
memo

Please note: it is a feature of this unit that the fluorescent display will be brighter for a few seconds after you choose a function (like DVD/LD, CD, etc.) and then get softer. This will still happen when you adjust the brightness but the new setting will be the one the display softens to.

DUAL MONO setting

The dual mono setting can only be used when listening to Dolby Digital discs that have dual mono software encoded in them. Dual mono software usually is used to put two different soundtracks on one DVD. With this setting you can choose which channel in the dual mono setting you want to listen to. Thus, it is useful for soundtracks that have one language on one channel and a different language on the other. Remember this setting is only applicable if you are using Dolby Digital software with dual mono and want to isolate one of the channels therein. Otherwise, just ignore this function.

.



DUAL ch1 setting

DUAL ch2 setting

DUAL ch1/ch2 setting

When DUAL MONO is playing with ch 1 selected the L will light.
When playing with ch 2 selected the R will light.
When playing with ch 1/2 selected the L and R will light.

1 Turn the receiver ON.

2 Hold down the RETURN button for 3 or 4 seconds. The receiver will cycle through the three different dual mono settings for as long as you hold the button down.

Take your finger off the button when the mode that you want to use is displayed.

The different settings are: DUAL ch1, where you only hear channel 1; DUAL ch2, where you only hear channel 2; and DUAL ch1/ch2, where you hear both channels, but independently from different speakers.

The display will show dual mono for a while then revert to the sound mode you are in but you will still be listening to dual mono.

memo

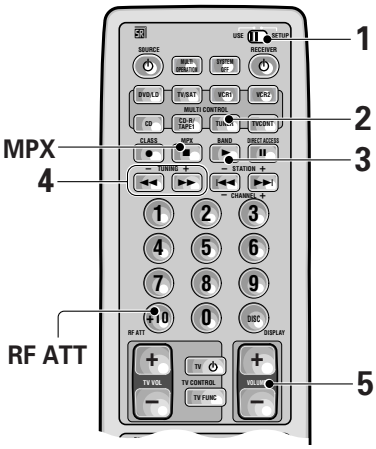
The default setting is DUAL ch1.

Using the Tuner

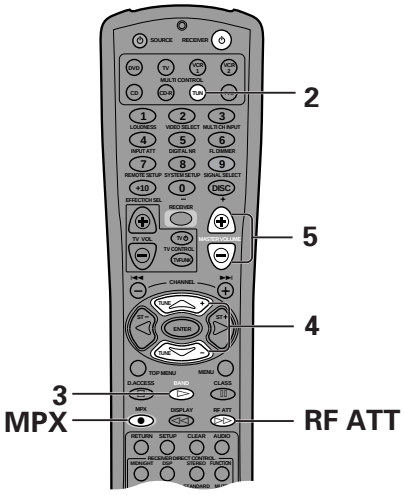
Automatic and Manual Tuning

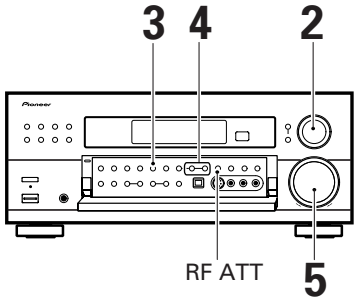
The following steps show you how to tune in FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions. If you already know the exact frequency of the station you desire, see "Direct Access Tuning" on the following page.

VSX-859RDS



VSX-839RDS





1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Press the TUNER button ("TUN" on the VSX-839RDS).

On the remote, this selects the TUNER function on the receiver and sets the remote to the TUNER operation mode.

3 Press BAND button on the remote or the front panel to select the band (FM or AM).

Each press switches the band: FM ⇄ AM

4 Tune in the station.

For Automatic Tuning

Press and hold TUNING –/+ buttons for about one second, then release.

The tuner starts searching the selected band and stop automatically at the first station it locates. Repeat to locate other stations.

For Manual Tuning

- To change frequencies one step at a time, press TUNING –/+ repeatedly.
- To change frequencies quickly, hold down TUNING –/+ and release when you reach the frequency you desire.

5 Adjust the MASTER VOLUME buttons on the remote control or the MASTER VOLUME on the front panel.

MPX mode

If the TUNED or STEREO indicators do not light when tuning an FM station, because the station is too far away or the broadcast signal is weak, press MPX on the remote control or front panel to switch to MONO reception. This should improve reception enough for you to enjoy the broadcast.

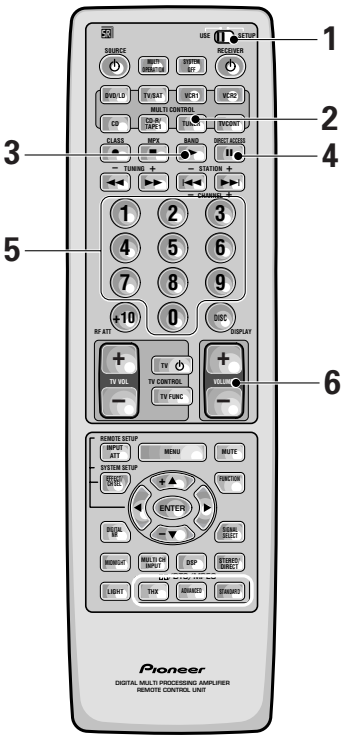
RF ATT mode

Press the RF ATT button to turn the RF attenuator on to reduce sound distortion when receiving a strong FM signal from a nearby station. Normally, this button should be set to off. This button does not affect AM reception.

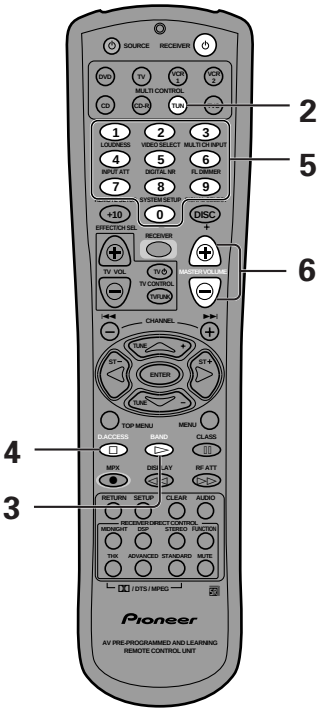
Direct Access Tuning

The following steps show you how to tune directly to a specific frequency using the remote control.

VSX-859RDS



VSX-839RDS



1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Press the TUNER button ("TUN" on the VSX-839RDS).

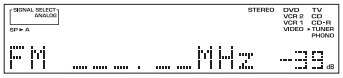
This selects the TUNER function on the receiver and sets the remote to the TUNER operation mode.

3 Press the BAND button on the remote or the front panel to select the band (FM or AM).

Each press switches the band: FM ⇄ AM

4 Press DIRECT ACCESS button to activate the direct Access tuning mode.

The cursor blinks in the display on the front panel.



5 Use the NUMBER buttons to enter the frequency of the station you want.

Example:

To tune station 106.00 (FM), press:

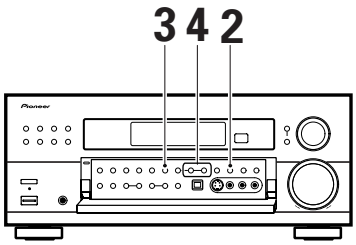
To cancel before inputting the frequency

Press DIRECT ACCESS button, and enter the frequency again.

6 Adjust the MASTER VOLUME buttons on the remote control or the MASTER VOLUME on the front panel.

Memorizing Frequently Used Stations

The following steps show you how to memorize up to 30 radio stations in 3 classes (each holding 10 channels). When memorizing FM frequencies, the receiver also memorizes the MPX mode (STEREO or MONO).



1 Tune in the desired station.

See "Automatic and Manual Tuning" or "Direct Access Tuning" on p. 58 and 59.

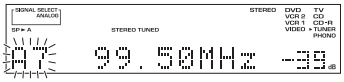
2 Press the MEMORY button to activate the memory function.

3 Press the CLASS button repeatedly to select a class number.

Each press switches the display as follows:

CLASS A → CLASS B → CLASS C →

4 Press the STATION –/+ buttons repeatedly to select a channel (0~9) within the respective class.



The station is memorized automatically after 5 seconds.

If you want to escape from MEMORY mode

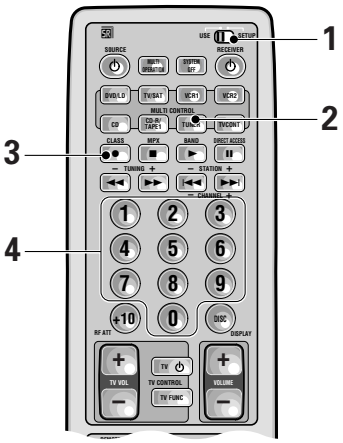
Press the MEMORY button again.

Repeat steps 1 through 4 to memorize up to 30 stations.

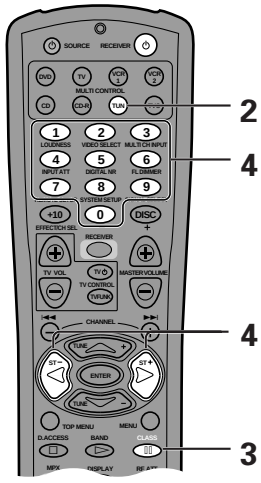
Recalling Memorized Stations

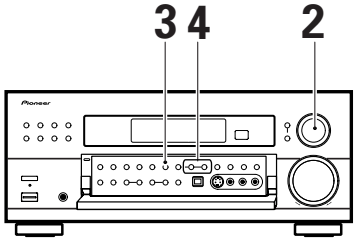
Using the remote control

VSX-859RDS



VSX-839RDS





1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Press the TUNER button ("TUN" on the VSX-839RDS) or turn the MULTI JOG to select the TUNER function.

This selects the TUNER function on the receiver and sets the remote to the TUNER operation mode.

3 Press the CLASS button repeatedly to select a class number.

Each press switches the display as follows:

CLASS A → CLASS B → CLASS C →

4 Use the NUMBER buttons (or STATION +/– buttons) to select the channel you want.

To select channel 7, press (7).

To select channel 0, press (0).

For example : If 99.50 MHz (FM) was memorized in class A at channel 7.

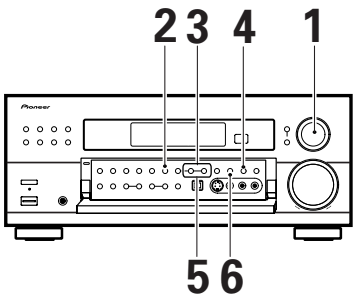
To skip through each channel in order

Press STATION –/+ repeatedly.

Memorizing a broadcast station name (Manual Station Name Memory)

memo

- You can input a name of up to four characters for each preset broadcast station (see page 60).
- The memorized name takes priority over PS data.



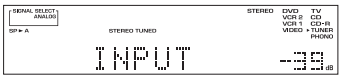
1 Select the TUNER function

2 Press the CLASS button repeatedly to select one of the classes.

CLASS A → CLASS B → CLASS C

3 Press the STATION +/– buttons to select the preset channel.

4 Press the CHARACTER/SEARCH button to select the character input mode.



* When this button is set to OFF, the frequency being received will be displayed.

When FM is selected:

SEARCH → OFF → INPUT → SEARCH

(Character input mode)

When AM is selected:

OFF → INPUT → OFF

(Character input mode)

memo

- See p. 99 for are all the possible characters you can input.

5 Press the TUNING +/– buttons (or turn the MULTI JOG dial) to enter the broadcast station name.

Refer to "Character display used for station name input" on p. 99.

6 Press MEMORY (or the MULTI JOG dial) to input the first of four characters. After four characters have been entered, the character input mode is exited.

Repeat steps 2 to 4 to memorize up to 30 broadcast station names.

To erase and change the memorized station name

Perform the procedures of "Memorizing a broadcast station name" and enter four spaces to erase the memorized station name.
When you want to change a memorized station name, input the new station name using the same procedure.

memo

In order to remember what frequencies you input into which station numbers it might be helpful write down the station names you input in the table provided on p. 99.

An Introduction to RDS & EON

Radio Data System, or RDS as it's usually known, is a system used by FM radio stations to provide listeners with various kinds of information—the name of the station and the kind of show they're broadcasting, for example. This information shows up as text on the display, and you can switch between the kind of information shown. Although you don't get RDS information from all FM radio stations, you do with most.
Probably the best feature of RDS is that you can search automatically by type of program. So, if you felt like listening to jazz, you could search for a station that's broadcasting a show with the program type, "JAZZ." There are around 30 such program types, including various genres of music, news, sport, talk shows, financial information, and so on.
The receiver lets you display three different kinds of RDS information: Radio Text, Program Service Name, and Program Type.
Radio Text (**RT**) is messages sent by the radio station. These can be anything the broadcaster chooses—a talk radio station might give out it telephone number as RT, for example.
Program Service Name (**PS**) is the name of the radio station.
Program Type (**PTY**) indicates the kind of program currently being broadcast.
The receiver can search for and display the following program types:

NEWS	
AFFAIRS	Current affairs
INFORMATION	General information
SPORT	
EDUCATION	Educational material
DRAMA	Radio plays or serials
CULTURE	
SCIENCE	Science and technology
VARIED	Usually talk-based material, such as quiz shows or interviews.
POP M	Pop music
ROCK M	Rock music
M.O.R. M	“Middle of the road” music
LIGHT M	‘Light’ classical music
CLASSICAL	‘Serious’ classical music
OTHER M	Other music not fitting any of the above categories
WEATHER	
FINANCE	Stock market reports, commerce, trading, etc.
CHILDREN	Children’s entertainment
SOC. AFFAIR	Social affairs
RELIGION	
PHONE IN	
TRAVEL	Holiday-type travel rather than traffic announcements.
LEISURE	Leisure interests and hobbies
JAZZ	
COUNTRY M	Country music
NATIONAL M	Popular music in a language other than English
OLDIES M	Popular music from the ’50s
FOLK M	Folk music
DOCUMENTARY	Documentaries

In addition, there is a program type, ALARM!, used for exceptional emergency announcements. You can't search for this, but the tuner will switch automatically to this RDS broadcast signal.

Basics of EON

EON (Enhanced Other Network information)

EON is a function that allows you to set the receiver to switch to a frequency automatically when a program featuring traffic information or news is being broadcast. It cannot be used in areas that EON information is not transmitted and when FM broadcast stations do not transmit PTY data. When the broadcast ends, the tuner returns to the original frequency or function.

There are two types of EON you can set the tuner to:

1) TA (Traffic Announcement)
   This mode will set the tuner to pick up traffic information when it is broadcast.

2) NEWS
   This mode will set the tuner to pick up news when it is broadcast.

Setting EON allows automated reception of TA/NEWS broadcasts

When EON is turned on, the receiver will automatically jump to those EON-linked broadcasts. Even if a receiver function other than the tuner is being used, the receiver function will switch to the FM station automatically when an EON-linked Traffic Information or News program begins. When the program ends, the original function will be restored. The EON function will not operate, however, when the tuner is on AM.

The receiver's internal Program Identification function

PI (Programma Identification)

This is an identifying marker the tuner automatically attaches to stations stored in your preset memory classes (see p. 60). The marker distinguishes between stations which transmit RDS data and those that don't, so that the receiver knows which stations to look at when searching for RDS or EON transmissions. The code is not displayed on the receiver and you don't need to do anything in regards to setting the PI codes.

PI code registration and erasure

The receiver will automatically register a PI code for any station you input into the memory classes (see p. 60) which can receive RDS or EON data. If you want to have a station preset in your memory banks but DON'T want the receiver to search this station for RDS information you can erase the PI code and then the receiver will ignore this station when searching for RDS transmissions.

To erase PI codes, follow this procedure:

1. When tuned to the station whose PI code you want to erase press the EON MODE button for two seconds or more.
   "ERASE PI" will be displayed.

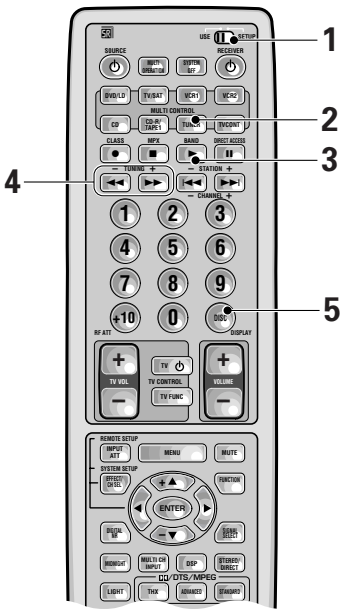
2. Press MEMORY button within 5 seconds.

RDS (Radio Data System) Broadcast Reception

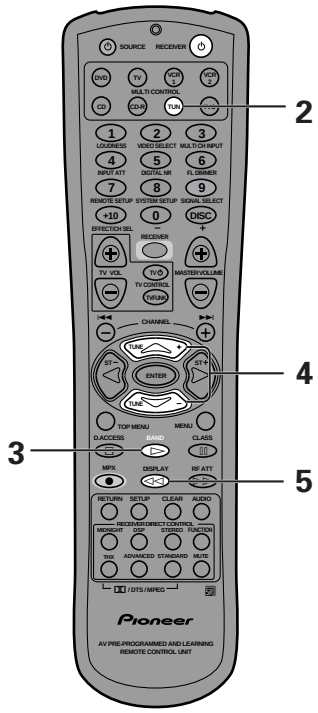
Displaying RDS data

One of the most useful features of RDS is the ability to search for a particular kind of radio program. You can search for any of the program types listed on page 63—this covers all kinds of music, as well as news, weather forecasts, sports programs, and a variety of others.

VSX-859RDS



VSX-839RDS



1 For the VSX-859RDS set the slide switch on the remote control to USE.

2 Press the TUNER button ("TUN" on the VSX-839RDS).

This selects the TUNER function on the receiver and sets the remote control to the TUNER operation mode.
The previously tuned station is received automatically.

3 Press the BAND button on the remote control or the front panel to select FM.

Each press switches the band: FM ⇔ AM

4 Tune into a station.

Refer to "Automatic and Manual Tuning" or "Direct Access Tuning" on pages 58 and 59.

- If the received broadcast transmits RDS data, the RDS indicator lights, and the data of the display mode appears in the display.

5 Press the DISPLAY button to select a mode.

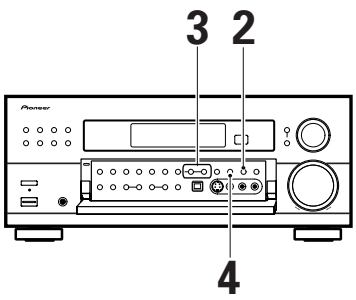
Each press changes the display as follows:

RT → PS → PTY → Frequency →

memo

- In the RT mode, should any noise be picked up while displaying the RT scroll, some characters may temporarily be incorrectly displayed.
- In the RT mode, when no RT data is transmitted from a broadcast station, "NO RADIO TEXT DATA" is displayed once and after that the PS data is displayed.
- In the PTY mode, there are cases where "NO TYPE" is displayed. In this case, it will automatically switch to the PS mode after a few seconds.
- When reception conditions are strong, and RDS data is incorrectly displayed, press RF ATT.
- If you are using the RDS feature and change the function of the receiver (to CD, for example), and then display the sound mode, when you return to the TUNER function the RDS data will no longer be displayed.
- If the function of the receiver is on TUNER (in RDS mode) and the display is set to sound mode, when you display RDS information by pressing the DISPLAY button on the remote control the display will revert back to function display by itself. If you want to see the sound mode press the MULTI JOG dial.

Searching for a program by program type (PTY) (front panel only)



1 Tune into an FM station.

Refer to "Automatic and Manual Tuning" or "Direct Access Tuning" on p. 58 and 59.

2 Press the CHARACTER/SEARCH button to select the PTY search mode.

* When this button is set to OFF, the frequency being received is displayed.

When the STATION mode is selected:

OFF → INPUT → SEARCH (PTY search mode) →

When the FREQUENCY mode is selected:

OFF → SEARCH (PTY search mode) →

3 Press the TUNING +/– buttons to select the desired program type.

* Refer to page 63 for program types.

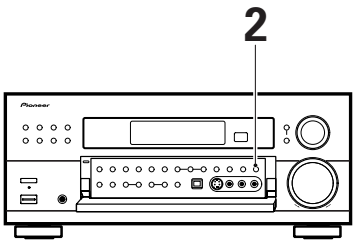
4 Press the MEMORY button to search for the selected program type.

This will search the preset stations for a station broadcasting the selected program type. Press the MEMORY button within 5 seconds after a program has been found. If the MEMORY button is not pressed, the function will begin to search for another station automatically.

memo

This function searches RDS station preset in the 30ch memory. If this function is set when no stations have been preset, "NO PTY" will be displayed. If the PTY you want could not be found amongst the RDS stations in memory, the same display appears.

Using EON search (front panel only)



Refer to p. 64 for more information about EON.

1 Tune into an EON FM station.

Refer to "Automatic and Manual Tuning" or "Direct Access Tuning" on p. 58 and 59.

- Even if the EON mode is off, when an FM station is broadcasting a news of traffic information program, the EON (●) indicator lights in the display to inform you that the currently tuned station carries the EON data service.

2 Press the EON MODE button to select the EON mode.

Each press changes the display as follows:

EON TA → EON NEWS → OFF →

memo

- When EON is set to OFF, the frequency being received will be displayed, and then the RDS data will be displayed in the present display mode.
- The EON mode is canceled if you switch to AM reception while setting EON. Start once again after you return to FM reception.
- Simultaneous requests for Traffic Information (TA) and News programs is not possible.
- When you are playing back TAPE 2 while setting EON, TAPE 2 will be canceled by reception of EON. The function returns once more to TAPE 2 after EON reception is finished.
- When EON is turned on and a function other than the tuner is selected, the function will switch to the FM station automatically when Traffic Information or News begins. When the program ends, the original function will be restored.
- You cannot operate the MEMORY and CHARACTER/SEARCH buttons while the EON indicator in the display lights.
- Functions other than TUNER cannot be changed while the EON (●) indicator in the display blinks (while receiving EON broadcast). If you want to change to a source other than TUNER, press the EON MODE button and turn the EON mode off.
- When EON is ON, the EON indicator lights. During reception of news or traffic information broadcast the EON (●) indicator blinks.

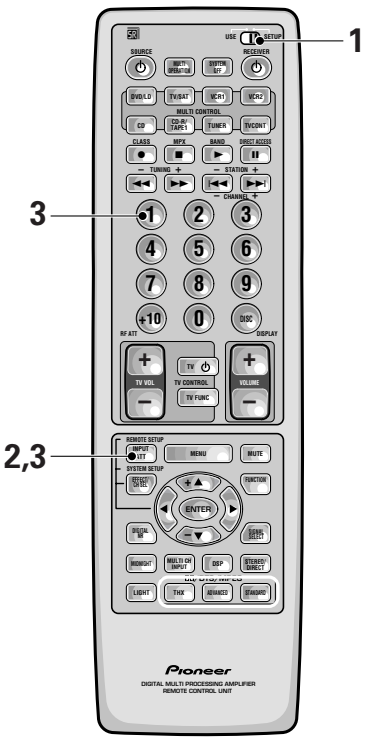
Remote Control of Other Components

Setting Up the Remote Control to Control Other Components

In addition to controlling the receiver, the supplied remote control can operate your other components (VCR, TV, LD, CD, etc.) after you program it to do so. In this way, instead of fumbling with many different controls and buttons, you only need to use one remote control. If your component(s) are listed in the remote control's memory, simply follow the steps below. If your component(s) are not listed, or if you want the remote to learn additional operations, you can use the learning mode to input the information from the remote controls supplied with your other components.

Recalling Preset Codes

The following steps show you how to recall preset codes stored in the remote control. Once a preset code is recalled and the component assigned, you can use this remote to easily operate the component. See "Preset Code List" on page 100-102 for the components and manufacturers available.



[VSX-859RDS]

1 Set the remote control slide switch to SETUP.

Also make sure that your TV is on and set to the receiver.

2 Press the REMOTE SETUP (INPUT ATT) button.

The REMOTE SET UP menu appears on your TV screen.

```
Select Remote
          Setup Mode

 Remote Setup+1
       Preset Recall
 Remote Setup+2
       Learning
 Remote Setup+3
       Multi-Operation
 Remote Setup+4
       Direct Function
```

You have four setup options:

① Preset Recall

② Learning

③ Multi Operations (See p. 89)

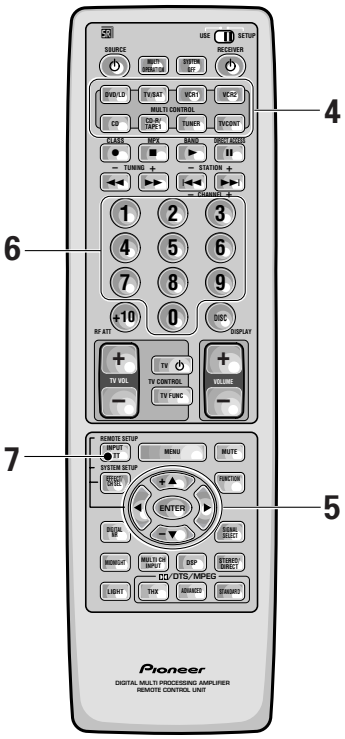
④ Direct Function (See p. 93)

Preset Recall and Learning are the two modes that teach the remote control to operate your other components. It's easiest to start with Preset Recall and, if setup isn't possible for certain components, move on to the Learning mode.

3 Press the REMOTE SETUP button and ① at the same time to select the preset recall setup mode.

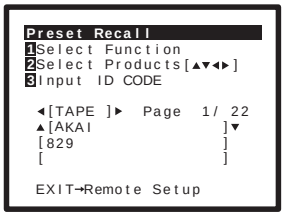
All the MULTI CONTROL buttons (except the TUNER button) start to blink.

To cancel the preset recall setup mode press REMOTE SET UP.



4 Press the MULTI CONTROL button for the component you want to control.

The button lights steadily and the first manufacturer and preset code(s) appear on your TV screen .



5 Press the ◄/► buttons to choose the function and then press the ▲/▼ buttons repeatedly to display the name of different manufacturers.

If your component is made by a small or relatively unknown manufacturer you may not be able to find the code.

6 Point the remote toward the component to be controlled, enter the 3 digit setup code (see p. 100 – 102).

When you enter the setup code, the remote emits a power on/off signal. If the component turns on or off, you have entered the proper code (this is only possible for components with a standby setting). If there is no standby setting on the component you are trying to input, leave it on during this process and see if it turns off when the code is entered.

If the component does not turn on or off and there is more than one setup code, try inputting another code (starting again from step 4). Some manufacturers use several sets of remote control signals and the first code may not correspond to your component.

Repeat steps 4 through 6 to assign preset codes for as many components as necessary.

If you can't get your component to respond to any of the codes see the next section.

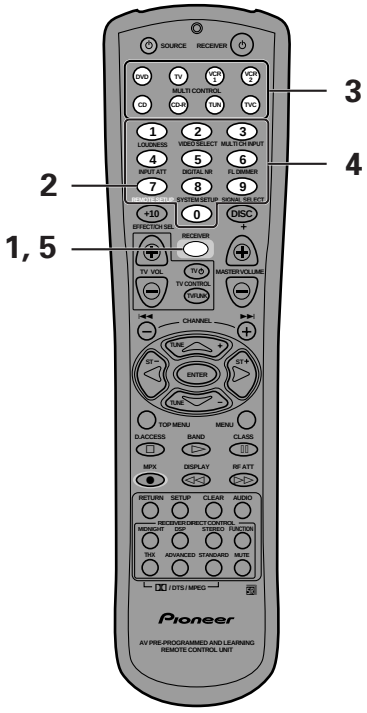
7 Press the REMOTE SETUP button to exit the preset recall setup mode.

The remote control and TV return to their previous operation modes.

- When you're done setting up, remember to set the slide switch back to USE.
- To erase all the preset codes see p. 75.

memo

The codes for are listed in the back of the manual on p. 100 – 102 In this list the DVR codes are listed under the DVD and the VCR section, the DAT codes are listed under the MD section and the SAT codes are listed under the STB section.



[VSX-839RDS]

1 Press RECEIVER.

This switches the remote to the receiver control mode.

2 Press the REMOTE SETUP button and hold for three seconds.

The LED will blink twice.

3 Press the MULTI CONTROL button for the component you want to control.

Each button can be set to control one of the following components.

- DVD, VCR 1, VCR 2: DVD/LD player or DVD Recorder, VCR
- TV, TVC: TV , Satellite tuner or Cable TV tuner
- CD, CD-R: CD player, CD-R, TAPE, MD, DAT
- TUN: FM/ AM tuner

4 Use the number buttons to enter the 4 digit setup code (see p. 103 – 110).

The LED will blink after each digit is input and will blink twice to confirm a valid code has been input.
If the LED shows one long blink it means an invalid code has been input. Check the preset code list and try again. If you are not able to input a preset code you can refer to p. 72 – 73 to teach the remote control individual commands.
Repeat steps 2 through 4 to assign preset codes for as many components as necessary.

5 Press RECEIVER to exit the preset mode.

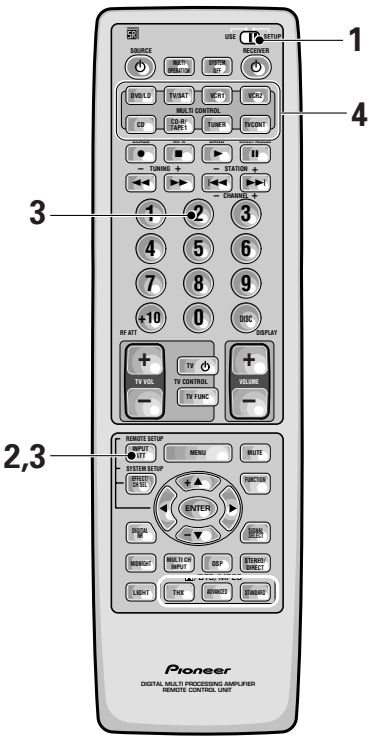
The remote control returns to the previous operation mode. It will also return to the previous mode after ten seconds of inactivity.

memo

- The Receiver button cannot be preset.
- You can only input a code for the component type written on each MULTI CONTROL button. See page 74 for information on how to program a different type of component than specified on the button.
- If you recall a preset code for the tuner (TUN MULTI CONTROL), you will not be able to control the built-in tuner of this receiver using the remote. To reset the remote to the built-in tuner, input the preset code 0080.
- The remote will return to the previous mode after ten seconds of inactivity.
- To erase all the preset codes see p. 76.

Learning commands from other remote controls

If preset codes are not available for your component(s), or the available preset codes do not operate correctly, you can use this function to program in signals from the remote control(s) of your other component(s). This operation can also be used after recalling a preset code to program additional operations not covered in the preset codes.



[VSX-859RDS]

1 Set the remote control slide switch to SETUP.

Also make sure that your TV is on and set to the receiver.

2 Press the REMOTE SETUP button.

The REMOTE SET UP menu appears on your TV screen.

```
Select Remote
          Setup Mode

 Remote Setup+1
       Preset Recall
 Remote Setup+2
       Learning
 Remote Setup+3
       Multi-Operation
 Remote Setup+4
       Direct Function
```

3 Press the REMOTE SETUP button and (2) at the same time to select the learning setup mode.

All the MULTI CONTROL buttons (except the TUNER button) start to blink.

To cancel learning setup mode, press the REMOTE SET UP button.

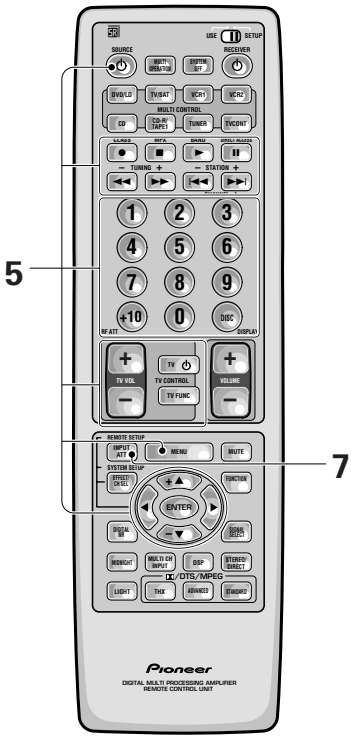
```
Learning Setup
1.Place both commanders
  pointing at each other.
2.Select the item from
  the Multi-Control
  buttons that should be
  duplicated. (ex. DVD)
  Multi-Control button
  starts blinking.

  EXIT→Remote Setup
```

4 Press the MULTI CONTROL button for the component you want to control.

Each button can be set to control one of the following components

The selected button continues to blink.

```
Learning Setup
3.Press one button that
  should be duplicated.
4.Multi-Control button
  lights up.
5.Press one button on the
  original commander, and
  hold 2 to 10 seconds.
6.Repeat this process to
  duplicate next command.
  EXIT→Remote Setup
```

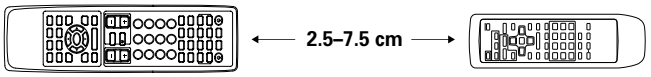


5 Press the button to be programmed.

The MULTI CONTROL button lights steadily.

- The TV POWER, TV FUNC and TV VOL +/– buttons are only available for learning when programming TV CONTROL operations.

6 Point the remote controls at each other and press the button on the other remote control for the operation you wish to program .



① Point the remote controls toward each other.

② Hold down the button on the other remote control corresponding to the operation you wish to program. Release when the MULTI CONTROL button on the receiver's remote control starts blinking.

(The MULTI CONTROL button blinks to indicate that the operation has been learned.)

To program additional operations for the current component, repeat steps 5 and 6.

To program operations for another component, repeat steps 4 through 6.

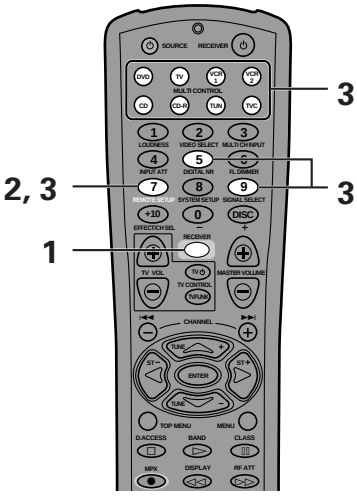
7 Press the REMOTE SETUP button to exit the learning setup mode.

The remote control and TV return to their previous operation modes.

- When you're done setting up, remember to set the slide switch back to USE.
- To erase programmed commands see p.75.

memo

Only the buttons identified with five in the illustration can be programmed.



[VSX-839RDS]

1 Press RECEIVER.

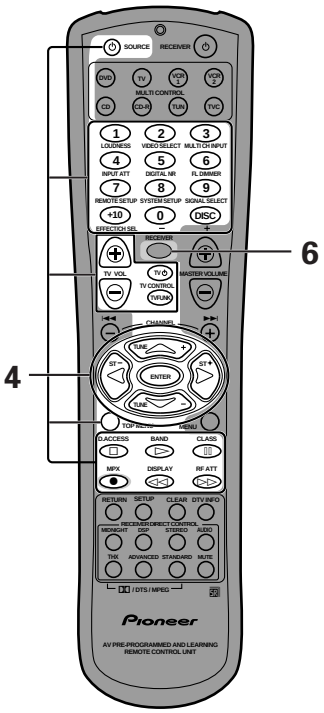
This switches the remote to the surround setup mode.

2 Press the REMOTE SET UP button and hold for three seconds.

The LED will blink twice.

3 Press the MULTI CONTROL button for the component you want to control and then press 9, 7, then 5 to select the LEARNING setup mode. The remote is ready to learn new commands from other remote controls.

The LED will blink twice.



The highlighted buttons can learn new functions.

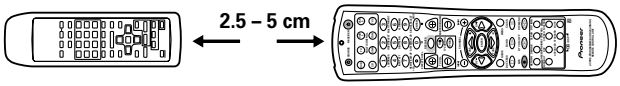
To cancel LEARNING setup mode
Press SETUP button.
After ten seconds if no commands are entered the remote will revert to its previous mode.

4 Press the button to be programmed (for example the ► [play] button).

The LED flashes rapidly.

5 Point the remote controls at each other, about 2.5 – 5 centimeters apart, and press the button on the other remote control for the operation you want to program (only the buttons highlighted in the diagram on the left can be programmed).

① Point the remote controls toward each other.
② Press the button on the other remote control corresponding to the operation you wish to program. The LED on this receiver's remote will go out and then blink twice when the operation is learned. Press the teaching key repeatedly, varying the distances between the remotes, until you see this receiver's remote blink twice, indicating the operation has been learned.



To program additional operations for the current component
Repeat steps 2 and 3.
To program operations for another component
Repeat steps 1 through 3.

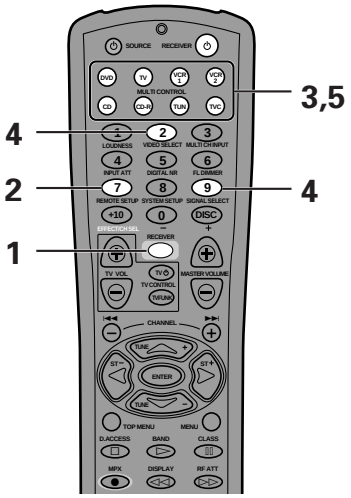
6 Press RECEIVER to exit the LEARNING setup mode.

memo

Some commands from other remote controls cannot be learned, but in most cases the remotes just need to be moved closer together a farther apart.

Programming a Different Component into a MULTI CONTROL button (VSX-839RDS only)

This feature changes a selected Multi Control button to a different component. For example, if you don't have a second TV, but you do have a second DVD, you could reassign the TV Multi Control to VCR so that VCR control buttons are available when you select TV.



1 Press RECEIVER.
This switches the remote to the surround setup mode.

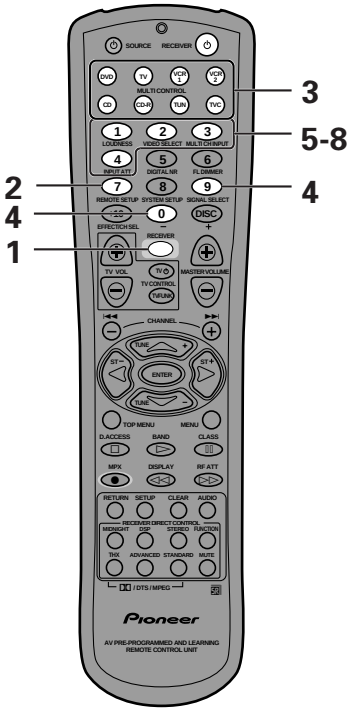
2 Press REMOTE SETUP and hold for three seconds.
The LED on the remote will blink twice.

3 Press the MULTI CONTROL button which you want to change.
For the example above, press VCR.

4 Press 9, 9, then 2.
The LED on the remote will blink twice.

5 Press the MULTI CONTROL button which you want to be duplicated.
In the above example, press TV. The LED will blinks twice. The TV button will now make the remote function as a VCR controller. Remember to assign the correct preset code for your equipment (the default is for Pioneer equipment).

Checking Preset Codes (VSX-839RDS only)



To check which preset code is associated with a Multi Control button:

1 Press RECEIVER.
This switches the remote to the surround setup mode.

2 Press REMOTE SETUP and hold for three seconds.
The LED on the remote will blink twice.

3 Press the MULTI CONTROL button you want to check the preset code for.

4 Press 9, 9 then 0.
Each preset code consists of four digits, for example 1329. Each digit will be represented by a series of blinks on the remote's LED—3 blinks to represent the digit "3", etc.

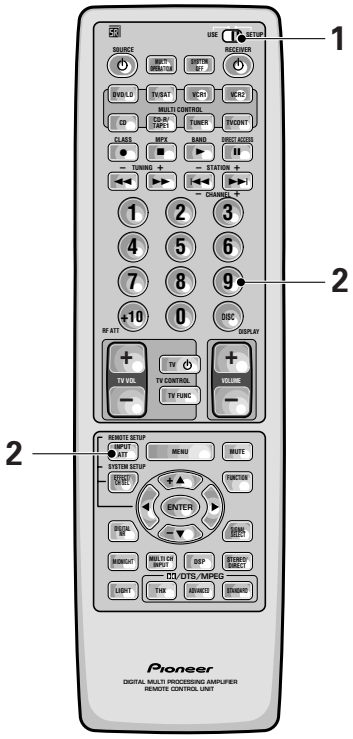
5 Press 1.
The blinking LED indicates the left-most digit of the preset code ("1" in the example above).

6 Press 2.
The blinking LED indicates the next digit of the preset code ("3" in the example above).

7 Press 3.
The blinking LED indicates the next digit of the preset code ("2" in the example above).

8 Press 4.
The blinking LED indicates the right-most digit of the preset code ("9" in the example above).

Clearing One of the Remote Control Settings (VSX-859RDS only)



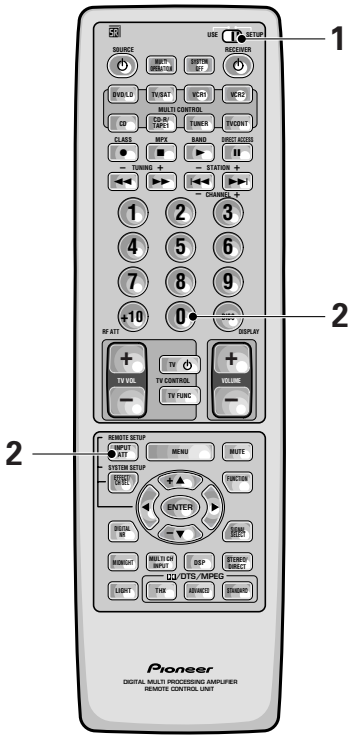
1 Set the remote control slide switch to SETUP.

2 Press and hold both the REMOTE SETUP (INPUT ATT) button and (9) for more than 3 seconds.

The MULTI CONTROL buttons will blink 3 times and all signals which have been learned from other remote controls will be erased.

- When you're done setting up, remember to set the slide switch back to USE.

Clearing All the Remote Control Settings (VSX-859RDS only)



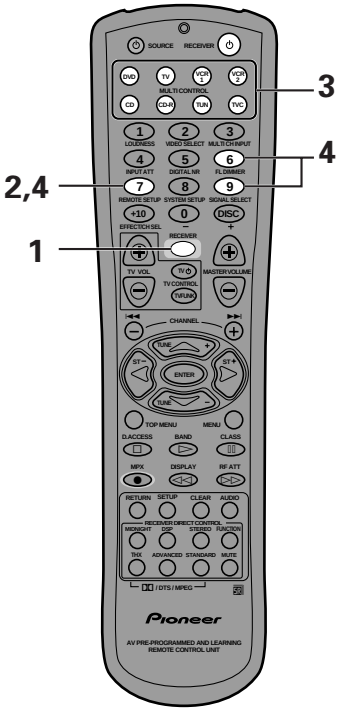
1 Set the remote control slide switch to SETUP.

2 Press and hold both the REMOTE SETUP (INPUT ATT) button and (0) for more than 3 seconds.

The MULTI CONTROL buttons, SYSTEM OFF button, and MULTI OPERATION button will blink 3 times and all preset and learned codes will be erased.

- When you're done setting up, remember to set the slide switch back to USE.

Clearing One of the Remote Control Settings (VSX-839RDS only)



This method clears one of the buttons you have programmed and restores the factory installed preset to that button.

1 Press RECEIVER.

This switches the remote to the surround setup mode.

2 Press REMOTE SETUP and hold for three seconds.

The LED will blink twice.

3 Press the MULTI CONTROL button relating to the button to be cleared.

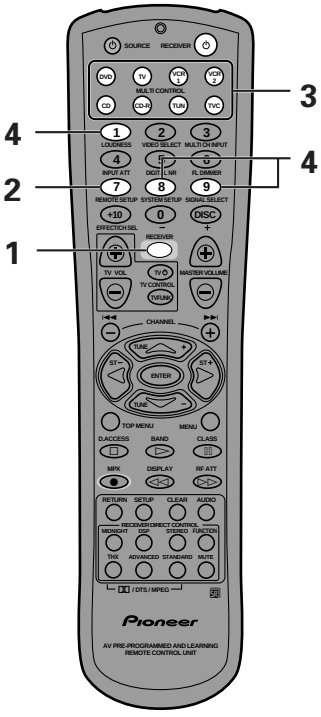
4 Press 9, 7, then 6.

5 Press the button to be cleared.

6 Press the button to be cleared once more.

The LED blinks twice to indicate the button has been cleared.

Clearing All the Remote Control Settings (VSX-839RDS only)



Clears all presets, all learned functions and restores the factory presets.

1 Press RECEIVER.

This switches the remote to the surround setup mode.

2 Press REMOTE SETUP and hold for three seconds.

The LED will blink twice.

3 Press any MULTI CONTROL button.

4 Press 9, 8, then 1.

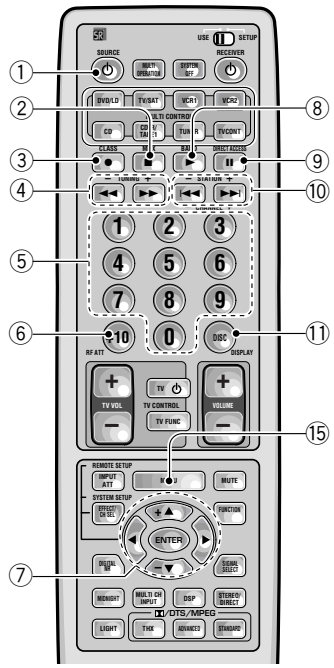
The LED blinks in sets of two twice (thus four times) to indicate the button has been cleared.

Using the Remote Control with Other Components

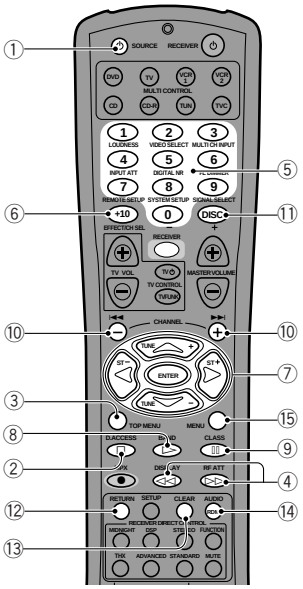
DVD or LD Player Operations

- The following operations are available from the receiver's remote control after you program your DVD or LD player's preset code, but some operations may need to be learned by the receiver (see "Setting Up the Remote Control to Control Other Components," on pages 68 – 73).
- To perform these operations, press the DVD/LD button to set the remote to the DVD or LD operation mode.
- For more information on individual commands consult the manual that came with the component.

VSX-859RDS



VSX-839RDS



① ⏻ **SOURCE**
Press to switch the DVD or LD player on or off (not possible with all models, especially those without a standby mode).

② ■
Press to stop playback.

③ ● **(TOP MENU)**
Press to call up the menu programmed on the DVD (for DVD only).

④ ◄◄/►►
◄◄ : Hold down for fast reverse playback.
►► : Hold down for fast forward playback.

⑤ **Number buttons**
Use to select chapters (tracks).

⑥ **+10**
Use when selecting chapter (track) numbers higher than 10.

⑦ ▲/▼/◄/►/**ENTER**
▲/▼/◄/► : Use to navigate through options on menu screens and to change settings.
ENTER : Use to implement settings selected with the cursor buttons or to set items highlighted in a menu (for DVD only).

⑧ ►
Press to start playback.

⑨ ❚❚
Press to pause playback.

⑩ |◄◄/►►|
|◄◄ : Press to return to the beginning of the current chapter (track). Press repeatedly to return to the beginning of previous chapters (tracks).
►►| : Press to advance to the beginning of the next chapter (track). Press repeatedly to advance to the beginning of following chapters (tracks).

⑪ **DISC (SIDE A/B)**
Use to change the LD between sides A and B (for LD only).

⑫ **RETURN (VSX-839RDS only)**
Press to return to the beginning of the current chapter (track). Press repeatedly to return to the beginning of previous chapters (tracks).

⑬ **CLEAR (VSX-839RDS only)**
This button clears the on-screen display (OSD) for the DVD menu.

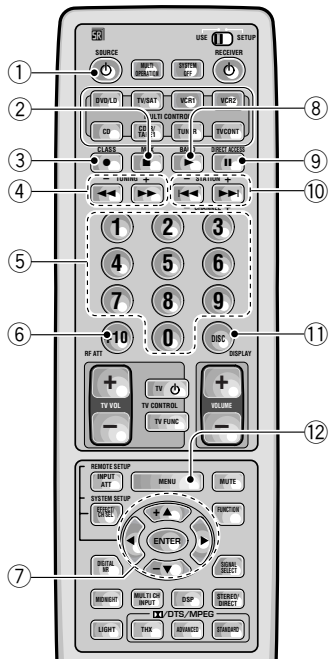
⑭ **AUDIO (RDM) (VSX-839RDS only)**
For a LD player use this button to change the LD between analog and digital.

⑮ **MENU**
Displays menus concerning the current DVD you are using.

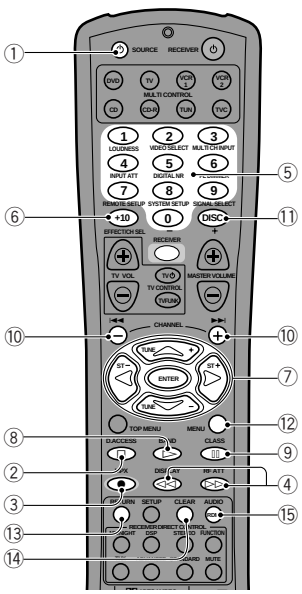
VCR & DVD Recorder Operations

- The following operations are available from the receiver's remote control after you program your VCR or DVD video recorder's preset code, but some operations may need to be learned by the receiver (see "Setting Up the Remote Control to Control Other Components," on pages 68 – 73).
- To perform these operations, press the VCR 1 or VCR 2 button to set the remote to the VCR, DVD video recorder operation mode.
- For more information on individual commands consult the manual that came with the component.

VSX-859RDS



VSX-839RDS



① ⏻ **SOURCE**
Press to switch the VCR or DVD video recorder on or off (not possible with all models, especially those without a standby mode).

② ■
Press to stop playback.

③ ●
Press to start recording.

④ ◄◄/►►
◄◄ : Hold down for fast reverse playback.
►► : Hold down for fast forward playback.

⑤ **Number buttons**
Use to select channels.

⑥ **+10**
Use when selecting chapter (track) numbers higher than 10 (for DVD video recorder only).

⑦ ▲/▼/◄/►/**ENTER**
▲/▼/◄/► : Use to navigate through options on menu screens and to change settings.
ENTER : Use to implement settings selected with the cursor buttons or to set items highlighted in a menu (for DVD video recorder only).

⑧ ►
Press to start playback.

⑨ ❚❚
Press to pause playback.

⑩ **CHANNEL –/+**
Use to change channels on the VCR's tuner.

⑪ **DISC (TV/VCR)**
Use this button to switch the VCR between its tuner (for watching videos) and the TV.
Press to stop recording (for DVD video recorder only).

⑫ **MENU**
Use to display or close the title menu screen (for DVD video recorder only).

⑬ **RETURN (VSX-839RDS only)**
Press to return to the beginning of the current chapter (track). Press repeatedly to return to the beginning of previous chapters (tracks) (for DVD video recorder only).

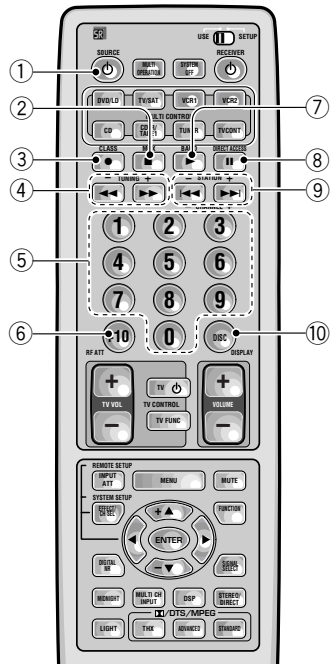
⑭ **CLEAR (VSX-839RDS only)**
This button clears the on-screen display (OSD) for the DVD menu (for DVD video recorder only).

⑮ **AUDIO (RDM) (VSX-839RDS only)**
For a VCR use this button to switch the VCR between its tuner (for watching videos) and the TV.

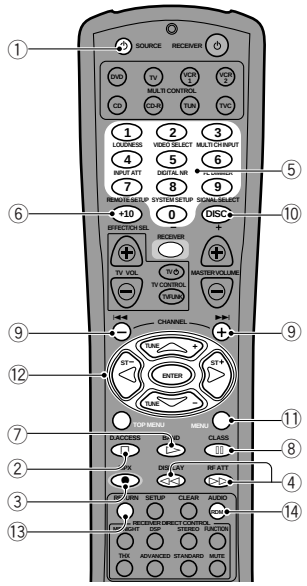
CD/CD-R Player Operations

- The following operations are available from the receiver's remote control after you program your CD player's preset code, but some operations may need to be learned by the receiver (see "Setting Up the Remote Control to Control Other Components," on pages 68 – 73).
- To perform these operations, press the CD button to set the remote to the CD operation mode.
- For more information on individual commands consult the manual that came with the component.

VSX-859RDS



VSX-839RDS



① ⏻ SOURCE

Press to switch the CD player/recorder on or off (not possible with all models, especially those without a standby mode).

② ■

Press to stop playback.

③ ●

Press to start recording (CD-R only).

④ ◄◄/►►

◄◄ : Hold down for fast reverse playback.

►► : Hold down for fast forward playback.

⑤ Number buttons

Used to directly access tracks on a program source.

⑥ +10

Use this button to select tracks higher than 10. Press this button and the remaining number to get the track (+10 Button + 3= track 13).

⑦ ►

Press to start playback.

⑧ ❚❚

Press to pause playback.

⑨ I◄◄/►►I

I◄◄ : Press to return to the beginning of the current track. Press repeatedly to return to the beginning of previous tracks.

►►I : Press to advance to the beginning of the next track. Press repeatedly to advance to the beginning of following tracks.

⑩ DISC

Use to switch between discs in file type disc play.

⑪ MENU (VSX-839RDS only)

Press to advance to the start of the next track. Repeated presses skips to the start of following tracks.

⑫ ◄ ► ▲▼ & ENTER (VSX-839RDS only)

◄ to reverse program source
► to fast forward program source
▲ to pause program source
▼ to stop program source
ENTER to play program source

⑬ RETURN (VSX-839RDS only)

Use to program the playback order of tracks on a disc.

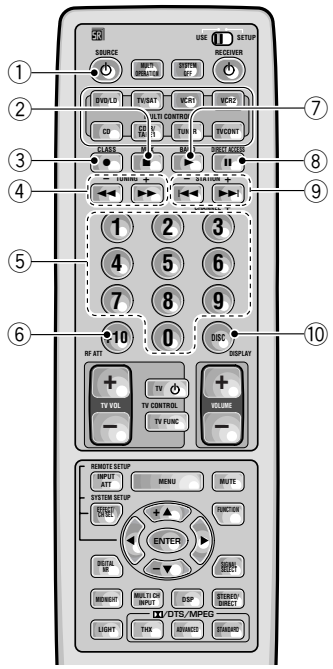
⑭ AUDIO (RDM) (VSX-839RDS only)

For a CD player use this button to choose random mode.

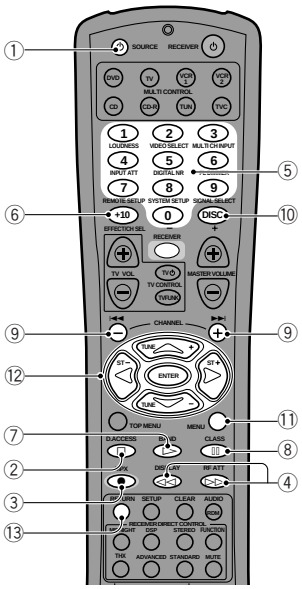
MD Operations

- The following operations are available from the receiver's remote control after you program your MD recorder's preset code, but some operations may need to be learned by the receiver (see "Setting up the Remote Control to Control Other Components," on pages 68 – 73).
- To perform these operations, press the CD-R/TAPE 1 button to set the remote to the MD operation mode.
- For more information on individual commands consult the manual that came with the component.

VSX-859RDS



VSX-839RDS



① ⏻ **SOURCE**
Press to switch the MD player on or off (not possible with all models, especially those without a standby mode).

② ■
Press to stop playback or recording.

③ ●
Press to start recording (may put some decks in REC PAUSE mode).

④ ◄◄/►►
◄◄ : Hold down for fast reverse playback.
►► : Hold down for fast forward playback.

⑤ **Number buttons**
Used to directly access tracks on a program source.

⑥ **+10**
Use this button to select tracks higher than 10. Press this button and the remaining number to get the track (+10 Button + 3= track 13).

⑦ ►
Press to start playback.

⑧ ❚❚
Press to pause playback.

⑨ |◄◄/►►|
|◄◄ : Press to return to the beginning of the current track. Press repeatedly to return to the beginning of previous tracks.
►►| : Press to advance to the beginning of the next track. Press repeatedly to advance to the beginning of following tracks.

⑩ **DISC (DISP/CHARA) (VSX-859RDS only)**
Allows you to change the display mode of the MD.
DISC (VSX-839RDS only)
On an MD player use it ejects the disc.

⑪ **MENU (VSX-839RDS only)**
Press to advance to the start of the next track. Repeated presses skips to the start of following tracks.

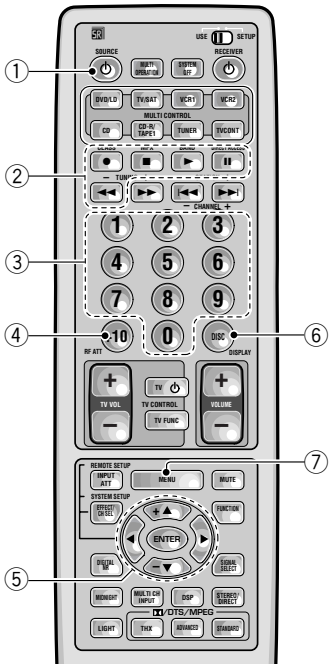
⑫ **◄ ► ▲▼ & ENTER (VSX-839RDS only)**
◄ to reverse program source
► to fast forward program source
▲ to pause program source
▼ to stop program source
ENTER to play program source

⑬ **RETURN (VSX-839RDS only)**
Use to program the playback order of tracks on a disc.

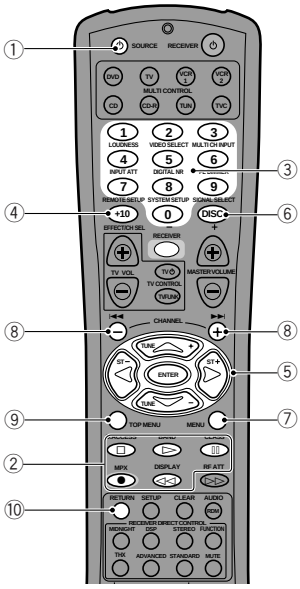
STB (satellite tuner) Operations

- The following operations are available from the receiver's remote control after you program your satellite tuner's (or cable TV's) preset code, but some operations may need to be learned by the receiver (see "Setting Up the Remote Control to Control Other Components," on pages 68 – 73).
- To perform these operations, press the TV/SAT button to set the remote to the SAT operation mode.
- For more information on individual commands consult the manual that came with the component.

VSX-859RDS



VSX-839RDS



① **⏻ SOURCE**
Press to switch the satellite tuner on or off (not possible with all models, especially those without a standby mode).

② **●/■/►/II/◄◄ (A/B/C/D/E)**
Use to make selections from Satellite functions.

③ **Number buttons**
Use to select satellite channels.

④ **+10 (GUIDE)**
Use to turn the program information screen on or off.

⑤ **▲/▼/◄/►/ENTER**
▲/▼/◄/► : Press the button to select items on the SAT GUIDE screen or SAT MENU screen.

ENTER : Press to activate the selected function.

⑥ **DISC (EXIT) (VSX-859RDS only)**
Press to exit the current setting of the SAT.

DISC (VSX-839RDS only)
Use to enter a channel.

⑦ **MENU (VSX-859RDS only)**
Use to turn the main menu on or off.

MENU (VSX-839RDS only)
Use to select the menu screen.

⑧ **CHANNEL +/– (VSX-839RDS only)**
Use to select channels.

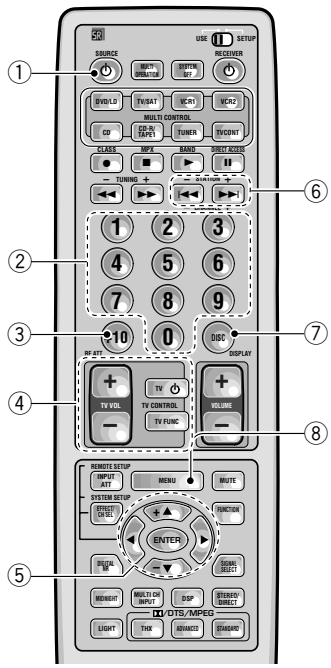
⑨ **TOP MENU (VSX-839RDS only)**
Use to bring up the GUIDE on a satellite TV.

⑩ **RETURN (VSX-839RDS only)**
Use to return channels.

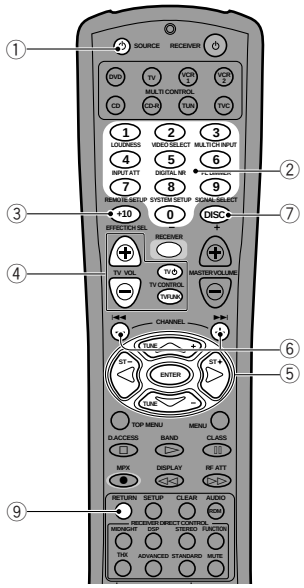
TV Operations

- The following operations are available from the receiver's remote control after you program your TV's preset code, but some operations may need to be learned by the receiver (see "Setting Up the Remote Control to Control Other Components," on pages 68 – 73).
- To perform these operations, press the TV/SAT and TV CONT button to set the remote to the TV operation mode.
- For more information on individual commands consult the manual that came with the your TV.

VSX-859RDS



VSX-839RDS



① ⏻ SOURCE

Press to switch the TV on or off (not possible with all models, especially those without a standby mode).

② Number buttons

Use to select a specific TV channel.

③ +10

Use to select a specific TV channel.

④ TV CONTROL buttons

The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.

TV ⏻ button – Press to turn the power of the TV on/off.

TV FUNC button – Press TV FUNC to select the TV for remote control operation.

TV VOL +/– button – Use to adjust the TV volume.

⑤ ▲/▼/◄/►/ENTER

▲/▼/◄/►/ : Press to select or adjust items on the menu screen.

ENTER : Press to activate the selected function.

⑥ CHANNEL –/+

Use to select a TV channel.

⑦ DISC (CH ENTER)

Use to select the channel specified with the number buttons (not all models require this step).

⑧ MENU

Press to select the TV menu.

⑨ RETURN (VSX-839RDS only)

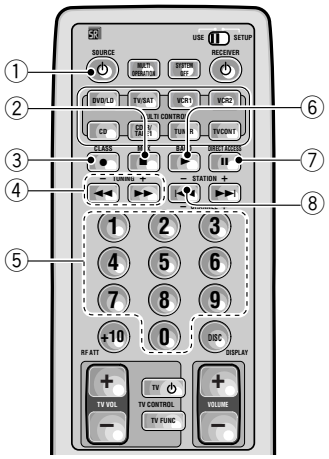
Use to return channels.

Cassette Deck Operations

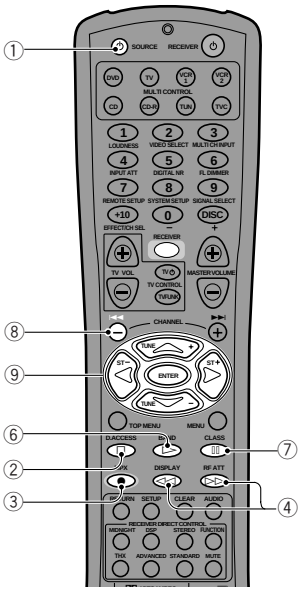
You can use this remote control to control most cassette decks, though with some models the functions may differ.

- The following operations are available from the receiver's remote control after you recall a cassette deck's preset code, but some operations may need to be learned by the receiver (see "Setting Up the Remote Control to Control Other Components," on pages 68 – 73).
- To perform these operations, press the CD-R/TAPE 1 button to set the remote to the TAPE operation mode.
- For more information on individual commands consult the manual that came with the component.

VSX-859RDS



VSX-839RDS



① ⏻ **SOURCE**

Press to switch the cassette deck on or off (not possible with all models, especially those without a standby mode).

② ■

Press to stop playback or recording.

③ ●

Press to start recording.

④ ◄◄/►►

◄◄ : Press to rewind the tape.

►► : Press to fast forward the tape.

⑤ **Number buttons (1-6) (VSX-859RDS only)**

1 : ■ (Press to stop playback or recording.)

2 : ► (Press to start playback of the side of the cassette which has been loaded as the front.)

3 : ❚❚ (Press to pause playback or recording.)

4 : ◄◄ (Press to rewind the tape.)

5 : ◄ (Press to start reverse playback.)

6 : ►► (Press to fast forward the tape.)

⑥ ►

Press to start playback of the side of the cassette which has been loaded as the front.

⑦ ❚❚

Press to pause playback or recording.

⑧ |◄◄

Press to start reverse playback (for auto reverse decks).

⑨ **THESE CONTROLS CAN BE USED FOR DECK ONE OF A DUAL TAPE DECK (VSX-839RDS only)**

▲ : Press to pause the tape.

▼ : Press to stop the tape.

ENTER : Press to start playback.

◄ : Press to rewind the tape.

► : Press fast forward the tape.

Using Other Functions

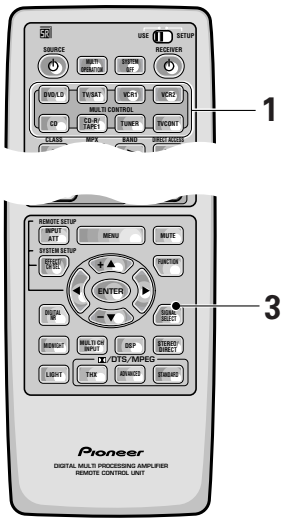
Recording from Audio Components

The following explanations show you how to record an analog or digital audio signal. Note that your analog components cannot record a player that is only connected digitally (and vice-versa). If you want to record from a digital component to an analog one (for example, a tape deck), or vice-versa, the digital component it **must** be connected via analog jacks and you need to set the SIGNAL SELECT switch to ANALOG. To make exact digital copies (of digital sources like CDs) both the source component **and** the recorder must be connected with digital connections. See p.12 for more on analog audio connections and p.13 for digital audio connections.

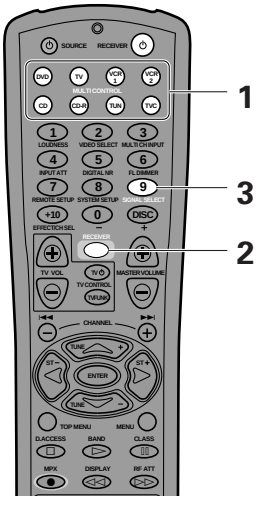
memo

The receiver's volume, channel level, balance, tone (BASS, TREBLE, and LOUDNESS), and surround effects have no effect on the recorded signal and the MULTI CHANNEL IN cannot be recorded.
In some cases, digital recordings have copy guard protections and making a digital copy is not possible. In this case you can only copy them in an analog manner.

VSX-859RDS



VSX-839RDS



1 Select the source component.

2 Press RECEIVER (VSX-839RDS only).

3 Set the SIGNAL SELECT according to the source component's signal (ANALOG or DIGITAL).

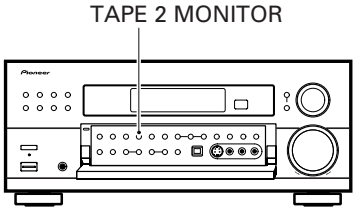
Press the SIGNAL SELECT button on the remote control (or use the button on the front panel) and choose ANALOG

4 Start recording with a recorder.

5 Playback the source to be recorded.

Record monitor (TAPE 2 MONITOR)

If you connect a cassette deck with a record monitor function to the TAPE 2 MONITOR jacks, you can listen to the sound of an analog recording as it is being recorded.
Press TAPE 2 MONITOR to switch between the sound of the recording (TAPE 2 indicator on) and the sound of the source component (TAPE 2 indicator off).

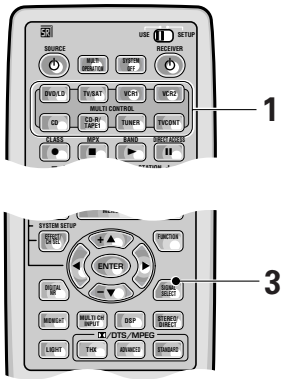


Recording from Digital Audio Components

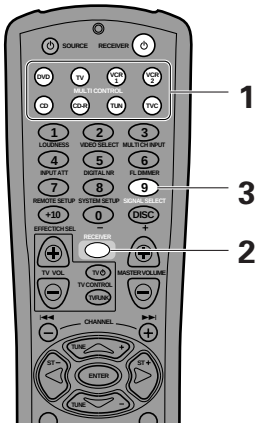
The following explanations show you how to record digital audio. Using this method you can make exact digital copies of sources like CDs or MDs. The only drawback is that you cannot switch between various recorders at the touch of a button like you can with analog recordings (see the previous page). If you look on the back of the receiver you will find a digital out jack which is marked PCM/DD/DTS/MPEG OUT (it is to the right of the digital in jacks in the upper left-hand corner). If you connect this to the optical input on a digital recorder (currently these include MD, DAT, and CD-R), you can make direct digital recordings with this unit. Of course, the digital components you want to record, all need to be connected to the receiver with digital inputs as well. See p.13 if you have not made these connections.

memo The receiver's volume, channel level, tone (BASS, TREBLE, and LOUDNESS), and surround effects have no effect on the recorded signal.

VSX-859RDS



VSX-839RDS



1 Prepare the source you want to record and put the receiver in that function.

2 Press RECEIVER (VSX-839RDS only)

3 Set the SIGNAL SELECT to digital.

Press the SIGNAL SELECT button on the remote control (or use the button on the front panel) and choose DIGITAL.

4 Start recording with a CD-R or MD (etc.).

5 Play back the source to be recorded.

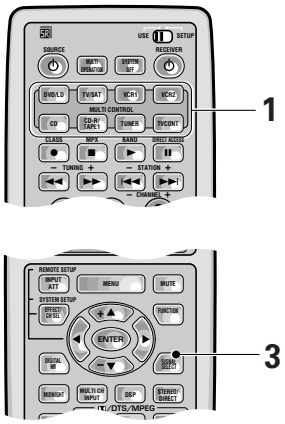
memo In some cases, digital recordings have copy guard protections on them and making a digital copy is not possible. It is still possible to copy these digital sources if you have hooked the components up with analog connections (in this case, the copies will not be exact digital reproductions). Refer to the previous page in this case.

Recording from Video Components

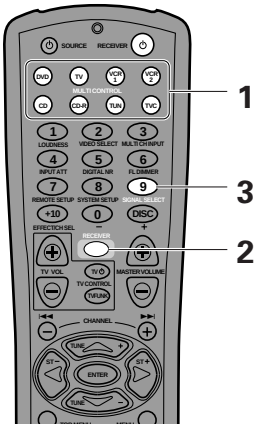
The following operations show you how to record audio and video to the video tape recorder connected to the VCR 1 or VCR 2 jacks. Note that all signals coming out of these jacks will be analog and it is not possible to record DTS soundtracks.

memo The receiver's volume, channel level tone (BASS, TREBLE, and LOUDNESS), and surround effects have no effect on the recorded signal.

VSX-859RDS



VSX-839RDS



1 First, decide the component you'd like to record and put the receiver in that function.

2 Press RECEIVER (VSX-839RDS only).

3 Set the SIGNAL SELECT to analog.

Press the SIGNAL SELECT button on the remote control (or use the button on the front panel) and choose analog.

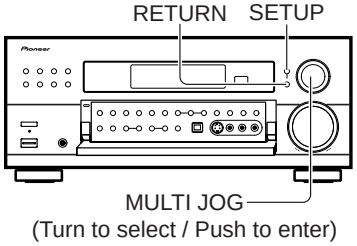
4 Start recording with VCR 1 or VCR 2 (etc.).

5 Playback the source to be recorded.

memo If the video material is copy protected you won't be able to copy it.

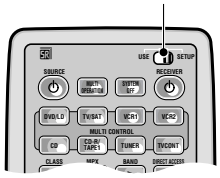
Function Rename

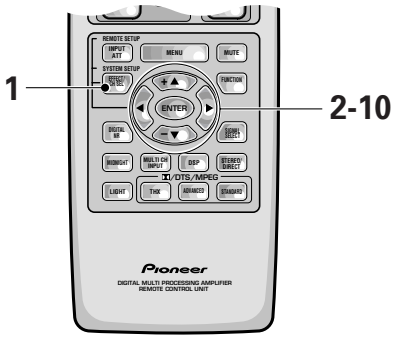
Use the FUNCTION RENAME capability to rename the functions, like DVD/LD, CD, etc., in the display. You might want to do this in order to personalize the display on the receiver or if your components are different than the names preset in the receiver (for example if you connect a video camera to the VIDEO jacks on the front of the receiver). Follow the on screen displays on your TV or the display on the receiver to carry out this task. See pages 30-31 for more instructions.



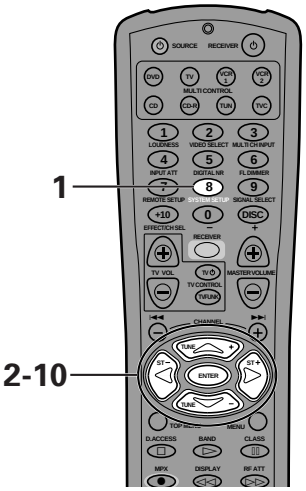
VSX-859RDS

Set the remote control slide switch to SETUP





VSX-839RDS



1 Press the SETUP button (SYSTEM SETUP button on the remote control).

You should see the following display on your TV (VSX-859RDS only).

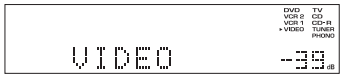
```
System Setup
►[Assign Setup]
 [Surround Setup]
 [Function Rename]
 [EXIT]
```

2 Use the MULTI JOG dial (▲/▼ buttons on the remote control) to select FUNCTION RENAME.

3 Press the MULTI JOG dial (ENTER on the remote control).

```
Function Rename
►DVD/LD  [DVD/LD     ]
 VCR2    [ VCR2      ]
 VCR1    [VCR1/DVR   ]
 VIDEO   [VIDEO      ]
 PHONO   [PHONO      ]
 CD-R    [CD-R/TAPE1]
 CD      [ CD        ]
 TV/SAT  [TV/SAT     ]
 [EXIT]
```

4 Use the MULTI JOG dial (▲/▼ buttons) to select the function that you want to rename.



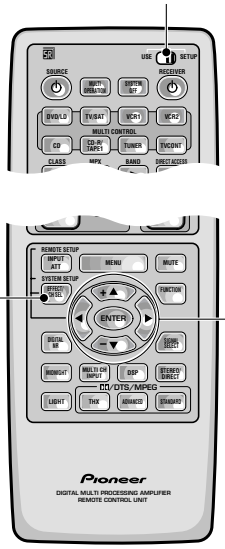
5 Press the MULTI JOG dial (press ENTER).

```
Function Rename
 DVD/LD  [DVD/LD     ]
 VCR2    [ VCR2      ]
 VCR1    [VCR1/DVR   ]
►VIDEO   [VIDEO      ]
 PHONO   [PHONO      ]
 CD-R    [CD-R/TAPE1]
 CD      [ CD        ]
 TV/SAT  [TV/SAT     ]
 [EXIT]
```

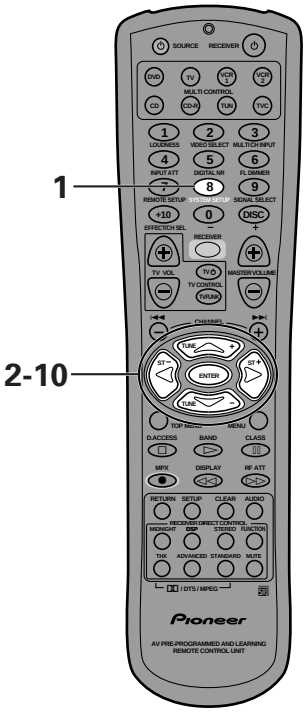
Here are all the possible characters you can input:
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"#%&'() ✳ +,-/:;<=>?_

VSX-859RDS

Set the remote control slide switch to SETUP



VSX-839RDS



6 Use the MULTI JOG dial (▲/▼ buttons) to choose the first character.

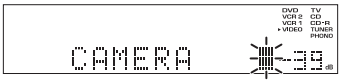
The MULTI JOG dial scrolls through the letters, numbers and symbols you can input.

7 Press the MULTI JOG dial (press ENTER).

That character appears on the screen and the cursor automatically moves to the next space.

```
Function Rename
   DVD/LD  [DVD/LD     ]
   VCR2    [ VCR2      ]
   VCR1    [VCR1/DVR   ]
►  VIDEO   [CIDEO      ]
   PHONO   [PHONO      ]
   CD-R    [CD-R/TAPE1 ]
   CD      [ CD        ]
   TV/SAT  [TV/SAT     ]
   [EXIT]
```

After ten characters have been entered, the character input mode is exited.



8 Repeat steps 4 to 7, spell out the function name you want to rename.

```
Function Rename
   DVD/LD  [DVD/LD     ]
   VCR2    [ VCR2      ]
   VCR1    [VCR1/DVR   ]
   VIDEO   [CAMERA     ]
►  PHONO   [PHONO      ]
   CD-R    [CD-R/TAPE1 ]
   CD      [ CD        ]
   TV/SAT  [TV/SAT     ]
   [EXIT]
```

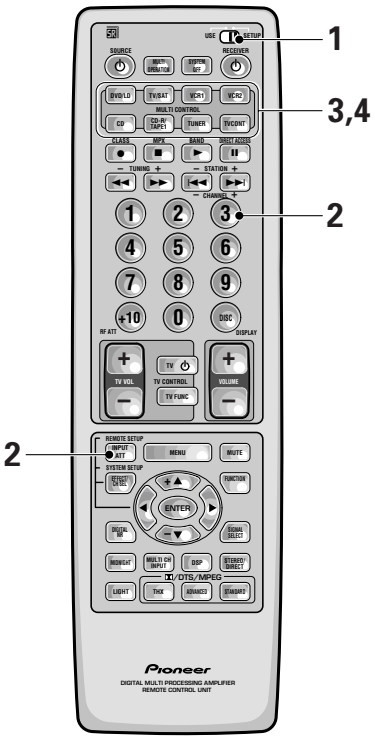
- You can include spaces, hyphens, most punctuation marks, other symbols and capital or lowercase letters in the name.
- When you want to change a function name, input the new function name using the same procedure.
- If you make a mistake you can use the RETURN button (◄ button) to go back a step.
- You can press the SETUP button (SYSTEM SETUP button on the remote control) to exit the process altogether.

9 Use the MULTI JOG dial (▲/▼ buttons) to select EXIT ("Rename End" on the receiver's display).

10 Press the MULTI JOG dial (press ENTER) twice.

Multi Operations (VSX-859RDS only)

A Multi Operation is a sequence of commands programmed into a single button to save you a lot of repetitive button pressing. Once setup, pressing the MULTI OPERATION button followed by one of the MULTI CONTROL buttons will switch on that component, the receiver and your TV, and switch the function of the receiver to that component. Up to five more commands can be programmed into a Multi Operation, such as changing the sound mode of the receiver and starting playback of the source.
Important: For Multi Operations to work with other non-Pioneer components, you must first setup the remote to control those other components—see p. 68 – 69 and p. 71 – 72for more on this.



1 Set the remote control slide switch to SETUP.

Also make sure that your TV is on and set to the receiver.

2 Press the REMOTE SETUP button (INPUT ATT) and ③ at the same time to select the MULTI OPERATION SETUP mode.

The REMOTE SETUP menu appears on your TV screen. The MULTI CONTROL and the SYSTEM OFF buttons start to blink (see the following page for more on the SYSTEM OFF button).

```
Multi-Operation
1Select an item from the
 Multi-Control buttons.
 (ex. DVD)
2Select the operation
 button(ex. DVD→MENU)
3First command has been
 learned.
4You can repeat this
 proccess for 5 commands
 EXIT→Remote Setup
```

- To cancel here, press REMOTE SETUP.

3 Select a MULTI CONTROL button for this MULTI OPERATION.

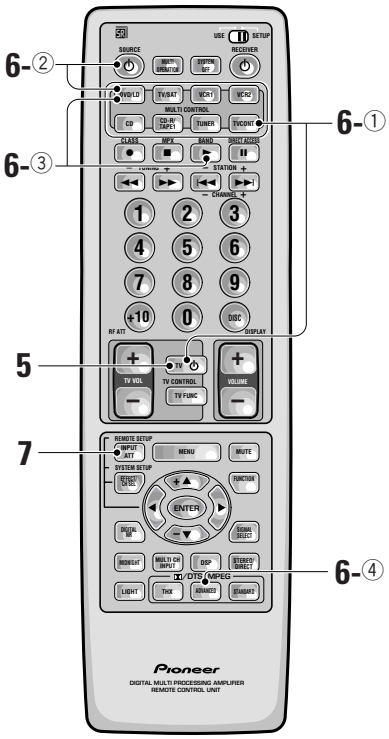
Each MULTI CONTROL button can be used for one Multi Operation. If a Multi Operation relates to using a DVD player, for example, it makes sense to select the DVD/LD button.

After pressing a MULTI CONTROL button, just that button will remain blinking.

4 Select the MULTI CONTROL button for a source component.

For example, if you want this Multi Operation to switch on your DVD player and change the function of the receiver to DVD/LD, press the DVD/LD MULTI CONTROL.

After pressing a MULTI CONTROL button, that button stays lit.



5 Press the operation button, for example TV ⏻ (POWER), you want to input.

6 Repeat steps 4 and 5 to input MULTI OPERATIONs to the MULTI CONTROL button you pressed in step 3. You can also tell the receiver to go into a specific sound mode (THX, ADVANCED, STANDARD, MPEG, MIDNIGHT, DSP DNR, MULTI CH IN or STEREO) by inputting that command (for example, see operation 4 below).

You can repeat this process for up to five commands.

For example : you could enter the following four operations using the preceding steps 4 and 5.

① Press the TV CONTROL button and TV ⏻ (POWER) to turn on your TV (as explained above).

② Press the DVD/LD button then ⏻ (POWER) to turn on your DVD player (if it is not a PIONEER product).

③ Press the DVD/LD button then ► (play) to start playing the DVD player.

④ Press the ADVANCED button to put the receiver in that sound mode.

When you employ MULTI OPERATIONs (see below), these four tasks will be performed in the same order.

7 Press the REMOTE SETUP button to exit the Multi-operation setup mode.

The remote control and TV return to their previous operation modes.

memo When you're done setting up, remember to set the slide switch back to USE.

Performing Multi Operations (VSX-859RDS only)

Once you've programmed a Multi Operation, here's how to use it.

1 Set the remote control slide switch to USE.

2 Press the MULTI OPERATION button on the remote control.

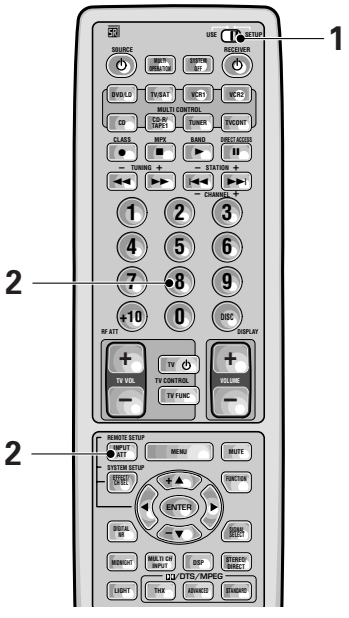
The MULTI CONTROL buttons start to blink.

3 Press the MULTI CONTROL button to activate that Multi Operation.

The remote sends the Multi Operation commands you programmed.

Erasing Multi Operations (VSX-859RDS only)

The following operations allow you to erase the Multi operation settings stored in the remote control.



1 Set the remote control slide switch to SETUP.

2 Press and hold both the REMOTE SETUP (INPUT ATT) button and (8) for more than 3 seconds.

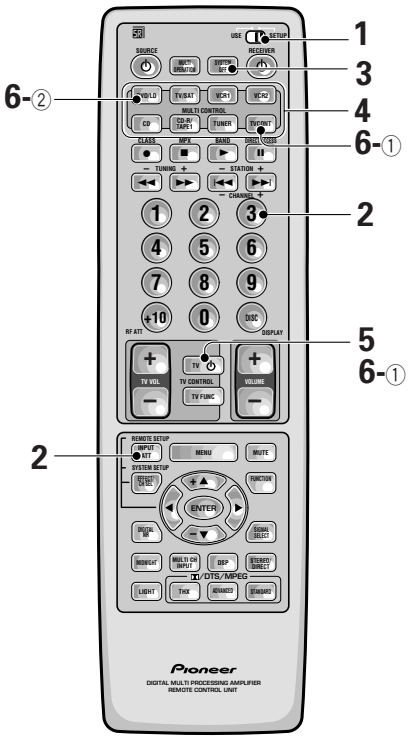
The MULTI CONTROL buttons will blink 3 times and all multi operation settings will be erased.

- When you're done erasing, remember to set the slide switch back to USE.

System Off (VSX-859RDS only)

The SYSTEM OFF feature allows you to tell the receiver and your other components to stop and turn off with the push of only one button on the remote control. For example, you can program the unit to stop your DVD, turn off your TV, turn off your DVD player and turn off the receiver itself. You don't need to program in other the power for PIONEER components, they will go off automatically in this mode. The receiver itself will go off automatically as well.
The steps below show you how to program a string of up to 5 different SYSTEM OFF operations based on eight possible components.

memo Be sure to recall or teach the remote control commands for each component before attempting MULTI OPERATIONS (see "Setting Up the Remote Control to Control Other Components," page 68 – 73).



1 Set the remote control slide switch to SETUP.

Also make sure that your TV is on and set to the receiver.

2 Press the REMOTE SETUP (INPUT ATT) button and ③ at the same time to select the MULTI OPERATION SETUP mode.

The REMOTE SETUP menu appears on your TV screen. The MULTI CONTROL and the SYSTEM OFF buttons start to blink.

To cancel MULTI OPERATION SETUP mode, press REMOTE SETUP.

3 Press the SYSTEM OFF button.

The SYSTEM OFF button will blink.

4 Press the MULTI CONTROL button for the component whose operation you want to start SYSTEM OFF with (for example, TV CONT button).

The selected button will light steadily.

5 Press the operation, for example TV ⏻ (POWER), you want to input.

6 Repeat steps 4 and 5 to input SYSTEM OFF for the components and commands you want to input.
You can repeat this process for up to five commands.

For example : you could enter the following two operations using the proceeding steps 4 and 5.

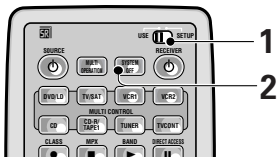
① Press TV CONT button & TV ⏻ (POWER) to turn off your TV (as explained above).

② Press DVD/LD then ⏻ (POWER) to turn off your DVD player (if it is not a PIONEER product).

- To exit SYSTEM OFF SETUP mode, press REMOTE SETUP.
- When you're done inputting the settings remember to set the slide switch back to USE.

Using the System Off button (VSX-859RDS only)

This button will turn off the receiver and any component that has programmed into the SYSTEM OFF settings (see above) as well as turn off all PIONEER components regardless of whether they have been programmed into SYSTEM OFF. If you use this feature when a DVD is playing, the player will stop the play mode before switching off.

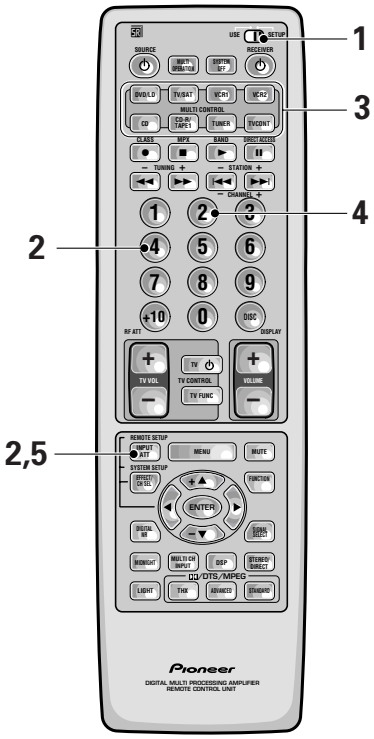


1 Set the remote control slide switch to USE.

2 Press the SYSTEM OFF button on the remote control.

Direct Function (VSX-859RDS)

The DIRECT FUNCTION is designed in case you have an external video source connected to your TV (a video source that is not going through the receiver). For this explanation we'll call this the "external video deck." You'd like to control the external video deck with this unit's remote control so you've assigned it a function button (for example purposes, the VCR 2 button). Yet, if you put the receiver in VCR 2 mode you'll get no picture on your TV because the external video deck signal is not going through the receiver. To get around this problem you set the DIRECT FUNCTION for VCR 2 to OFF. Now when you press VCR 2 function button you can control the external video deck with the remote but the receiver does not go into VCR 2 mode.

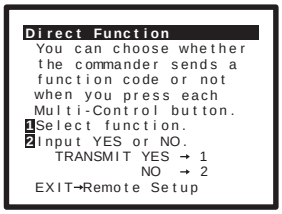


1 Set the remote control slide switch to SETUP.

Also make sure that your TV is on and set to the receiver.

2 Press the REMOTE SETUP (INPUT ATT) button and ④ at the same time to select the DIRECT FUNCTION mode.

The MULTI CONTROL buttons DVD/LD, TV/SAT, VCR 1/DVR, VCR 2, CD, and CD-R/TAPE 1 start to blink.



3 Select a component by pressing its MULTI CONTROL button.

4 Set the DIRECT FUNCTION of each external source to NO by pressing ②.

5 Press the REMOTE SETUP button to exit the DIRECT FUNCTION mode.

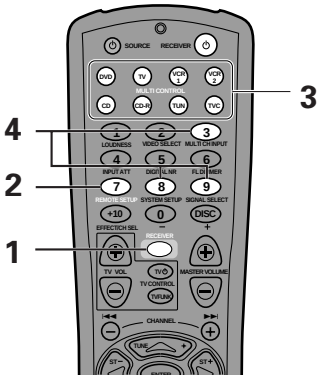
- When you're done changing the setting remember to set the slide switch back to USE.

memo

The default setting for all functions is YES. If you have turned a DIRECT FUNCTION to NO and want to turn it back to YES, follow the directions above and press ① in step 4.

Direct Function (VSX-839RDS)

The DIRECT FUNCTION is designed in case you have an external video source connected to your TV (a video source that is not going through the receiver). For this explanation we'll call this the "external video deck." You'd like to control the external video deck with this unit's remote control so you've assigned it a function button (for example purposes, the VCR 2 button). Yet, if you put the receiver in VCR 2 mode you'll get no picture on your TV because the external video deck signal is not going through the receiver. To get around this problem you set the DIRECT FUNCTION for VCR 2 to OFF. Now when you press VCR 2 function button you can control the external video deck with the remote but the receiver does not go into VCR 2 mode.



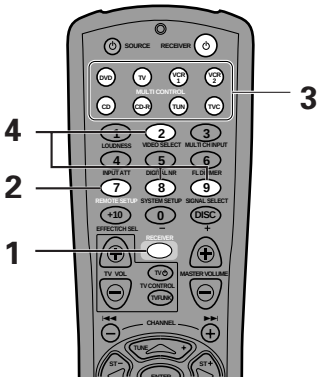
To set a multi-Control button to DIRECT OFF:

1 Press RECEIVER.
This switches the remote to the surround setup mode.

2 Press REMOTE SETUP and hold for three seconds.
The LED will blink twice.

3 Press the MULTI CONTROL button which you want to set to OFF.

4 Press 9, 8, then 3.
The LED blinks twice to indicate the button has been set to DIRECT FUNCTION OFF.



To set a multi-Control button to DIRECT ON:

1 Press RECEIVER.
This switches the remote to the surround setup mode.

2 Press REMOTE SETUP and hold for three seconds.
The LED will blink twice.

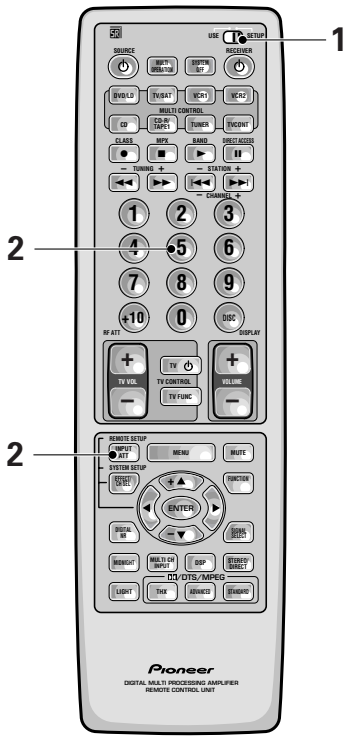
3 Press the MULTI CONTROL button which you want to set to ON.

4 Press 9, 8, then 2.
The LED blinks twice to indicate the button has been set to DIRECT FUNCTION ON.

memo TV CONT doesn't have this feature and thus can't use the DIRECT FUNCTION.

Remote Back Light (VSX-859RDS only)

When you press any button on the remote all the buttons light for a few seconds. You can change the strength of this light here. MAX is the strongest. MID is slightly weaker. There's also the option to switch off backlighting altogether. This extends battery life considerably.



1 Set the remote control slide switch to SETUP.

2 Press and hold both the REMOTE SETUP (INPUT ATT) button and (5).

The remote back light options cycle in the following order:

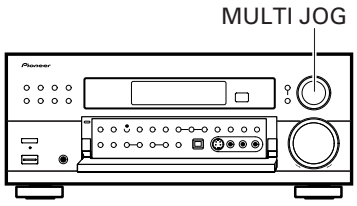
MID → MAX → OFF

The default setting is MID.

- When you're done changing the setting remember to set the slide switch back to USE.

Changing the Display

You can change the display on the front panel between the function and the sound mode by pressing the MULTI JOG dial (see #14 on p. 23).

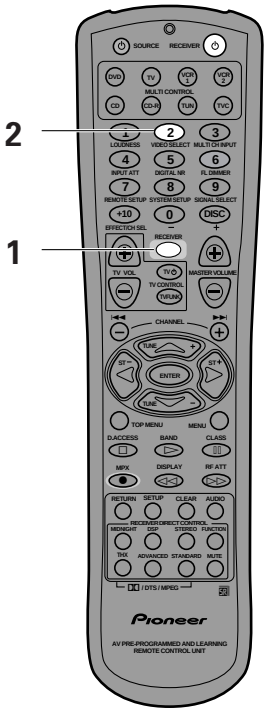


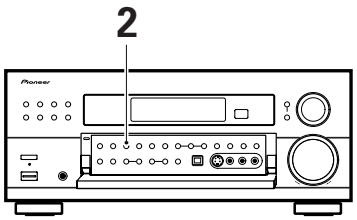
Press the MULTI JOG dial on the front panel to move between the function (DVD/LD, CD, etc.) display and the sound mode (STEREO, etc.) display.

The display will remain on the setting you choose. If you turn the MULTI JOG dial to select a new function, the function is displayed.

Video Select

This function allows you to listen to one sound source while you watch a different video source on your TV. The sound source is set in the normal fashion as is explained on p. 49 & 50. You then alter the video input with the VIDEO SELECT button.





1 Press RECEIVER (VSX-839RDS only).

2 Press the VIDEO SELECT button (for the VSX-859RDS on the front panel only) to cycle through the different possible video inputs.

The first press shows the video input you are currently using. After that pressing VIDEO SELECT cycles though the possibilities in the following order:

DVD/LD → VCR1 → VCR2 → TV/SAT → VIDEO → (OFF) → DVD/LD

The OFF setting means that no video signal is output.

After choosing a video input the display on the receiver will show that input for about 5 seconds and then revert to showing the sound mode the receiver is in.

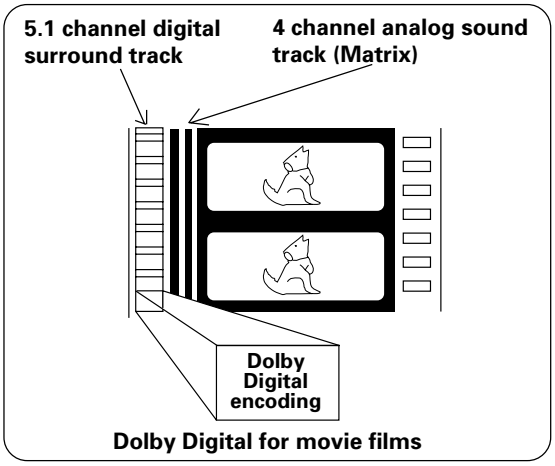
The VIDEO SELECT remains set to the input you chose until you change the audio input.

If you change audio functions the receiver will reset itself to make the video and audio inputs correspond.

Also, if you switch the power of the receiver OFF when you turn it back on the video and audio inputs will reset so that they correspond.

Dolby Digital

Dolby Digital is a compression format which records the sound of 6 channels of the theater surround system (Dolby Digital) on the movie film digital track. Of the 6 channels, the subwoofer channel is intended for bass only, and because the frequency range is smaller than the main channel, it is expressed as 5.1 channel.
Dolby Digital is the name of the Dolby surround multi-channel digital system that was developed after the Dolby Surround System and Dolby Pro Logic Surround System.

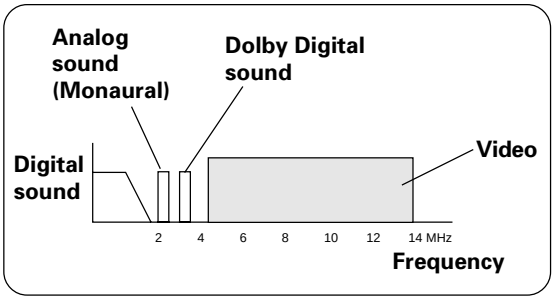


Dolby Digital for movie films

The number of movies made using Dolby Digital since 1992 has exceeded 300 and continues to increase.
For compact disc players and laser disc digital sounds, 16 bits are used to sample the original analog audio waveform and sampling is carried out 44,100 times every second. However because an enormous amount of recording signal data is required for the multi channel system with this method, Dolby Digital is used to compress the data.
In reproducing audio signals, the smaller the bit number used, the lower the sound quality. With Dolby Digital, drop in auditory sound quality is prevented by using masking technology and digital filtering technology based on the human auditory characteristics.

Laser disc format

Laser discs are now available on the market in large numbers. This means that the recording of different format audio signals on the laser disc raises the important question of compatibility with existing laser discs. Dolby Digital tracks on laser discs record signals using the space of one analog audio channel so it will maintain compatibility with existing discs and players.
As shown in the following figure, the digital audio sounds of Dolby Digital discs can be played back as currently done. Analog sounds are played back by using the other channel without the Dolby Digital signals for monaural audio signals.



DTS

DTS has been adopted as a sound recording format in the latest movie theaters since the release of "JURASSIC PARK" in 1993, and has a good reputation for high quality sound and dynamic surround effects.
In this system, 6 channels of digital sound are recorded on CD-ROM, rather than on the film. DTS adopts a simultaneous playback format. With a low rate of compression of sound signals and a high rate of transmittance, a higher sound quality format is produced. Also, unlike the process of recording digital sounds on film directly, the only components required are a CD-ROM player as might be used with a personal computer and a DTS processor, and therefore less investment is required than with other formats. For this reason, the format is being introduced in more and more movie theaters, and is being adopted in home movie software (DVD, LD) and music software (5.1 channel CD). DTS has recently added a third surround channel to its system. This has come to be known as DTS Extended Surround or simply DTS-ES.

THX

THX is a Lucasfilm, Ltd. program dedicated to maximum accuracy in movie presentation. Movie sound tracks are recorded in large movie dubbing stages using movie theater equipment. For a sound track to be presented accurately in your home, special technologies are required. In your home the room is much smaller and has a bright sound, the speakers are very different and there are only six-eight of them, plus, you sit much closer to each one of those speakers. Because of these differences we often miss the power and emotion that thrills us in a good movie. Now Pioneer and THX have teamed up to bring the full glory of accurate cinema sound to the comfort and convenience of your home.

Re-Equalization™ : In a theater the room is very large and dead sounding, you sit a long way back from the speakers and the speakers themselves are very specialized. Because a sound track recorded in this dead sounding space when it is played at home it sounds overbright. THX Re-Equalization adjusts for this difference in a very precise way.

Adaptive Decorrelation™ : When a sound track sends mono sound to the surround speakers it often seems to be coming come from one side instead of from all around you as it would in a theater. Adaptive Decorrelation helps to correct this inaccuracy.

Timbre Matching™ : When recording a sound track it is very important that the surround sounds move smoothly and seamlessly around the theater. It is very distracting when sounds seem to jump from speaker to speaker. Timbre Matching helps to smooth the movement of the surround sounds even though you are using only two speakers.

Bass Peak Level Manager™ : Some Dolby Digital sound tracks can produce bass peaks that are undesirable in a home theater environment. The Bass Peak Level Manager allows you to set the maximum peak levels appropriate to your system. (Set this function according to the **Bass Peak Level** instructions on page 42.)

Loudspeaker Position Time Synchronization™ : This feature allows you to adjust for the difference in the distance from each individual loudspeaker to the listening position. Doing this ensures that all the speakers operate in precise synchronization improving the seamless nature of the soundfield. (Set this function according to the **Channel Delay** instructions on p. 38.)

THX Surround EX™ : THX Surround EX–Dolby Digital Surround EX is a joint development of Dolby Laboratories and the THX division of Lucasfilm Ltd.

In a movie theater, film soundtracks that have been encoded with Dolby Digital Surround EX technology are able to reproduce an extra channel which has been added during the mixing of the program. This channel, called Surround Back, places sounds behind the listener in addition to the currently available front left, front center, front right, surround right, surround left and subwoofer channels. This additional channel provides the opportunity for more detailed imaging behind the listener and brings more depth, spacious ambience and sound localization than ever before.

Movies that were created using the Dolby Digital Surround EX technology, when released into the home consumer market may exhibit a Dolby Digital Surround EX logo on the packaging. A list of movies created using this technology can be found on the Dolby web site at http://www.dolby.com.

Only receiver and controller products bearing the THX Surround EX logo, when in the THX Surround EX mode, faithfully reproduce this new technology in the home.

This product may also engage the "THX Surround EX" mode during the playback of 5.1 channel material that is not Dolby Digital Surround EX encoded. In such case the information delivered to the Surround Back channel will be program dependent and may or may not be very pleasing depending on the particular soundtrack and the tastes of the individual listener.

MPEG Audio

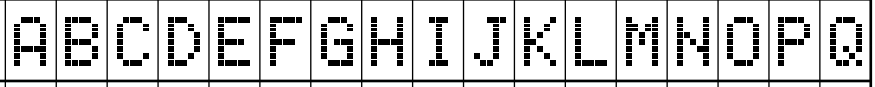
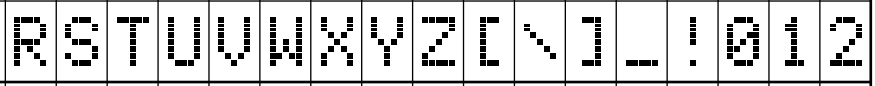
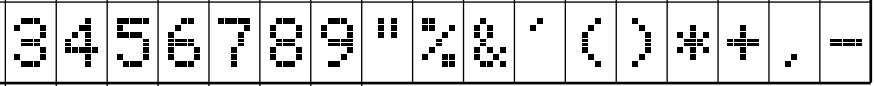
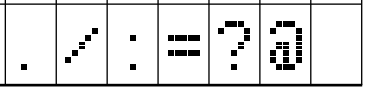
MPEG is an audio encoding system which delivers high quality audio for music and movies. By removing frequencies which are out of the human hearing range, the sound is then compressed to enable the transmission of mono, stereo, or multichannel (5.1 and 7.1) audio in a single bitstream which is why it has become a standard audio format for DVD and personal computers. The composition and versatility of MPEG audio also ensures that the presentation of a multichannel soundtrack will sound appropriate on everything from a 7.1 channel surround sound home theater setup to a mono television set. Above all, MPEG audio is designed to be compatible with past and future MPEG audio versions, which means that future versions of MPEG audio will be compatible with decoders currently being produced (the signal is merely reconfigured to fit the number of channels available in a system).

STATION CALL button “memo”

It is recommended that you make a note of the preset stations.

CLASS A	Station No.	*1	*2	*3	*4	*5
	Station Name					
	Frequency					
	Station No.	*6	*7	*8	*9	*0
	Station Name					
	Frequency					
CLASS B	Station No.	*1	*2	*3	*4	*5
	Station Name					
	Frequency					
	Station No.	*6	*7	*8	*9	*0
	Station Name					
	Frequency					
CLASS C	Station No.	*1	*2	*3	*4	*5
	Station Name					
	Frequency					
	Station No.	*6	*7	*8	*9	*0
	Station Name					
	Frequency					

Character display used for station name input:

Character	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Display indications																	
Character	R	S	T	U	V	W	X	Y	Z	[	\	]	_	!	0	1	2
Display indications																	
Character	3	4	5	6	7	8	9	"	%	&	'	(	)	*	+	,	-
Display indications																	
Character	.	/	:	=	?	@											
Display indications																	

Preset Code List for VSX-859RDS

DVD PLAYER & DVD RECORDER

Manufacturer	Code
TOSHIBA	001
SONY	002
PANASONIC	003
JVC	004
SAMSUNG	005
SHARP	006
AKAI	007
RCA	009
PIONEER	000, 008, 456(DVR)

LD PLAYER

Manufacturer	Code
DENON	110
HITACHI	109
PHILIPS	108
RADIOLA	108
SONY	101, 102
TELEFUNKEN	100
PIONEER	100,111

STB (SAT)

Manufacturer	Code
PIONEER	200, 204

STB (CATV)

Manufacturer	Code
PIONEER	208

VCR 1/3

Manufacturer	Code
PHILIPS	414, 428
PANASONIC	432, 408
THOMSON	417, 449, 428
SONY	416, 417, 457, 458, 459
JVC	407, 417, 428
GRUNDIG	408, 414, 441, 453, 454, 455
AKAI	442, 417
HITACHI	406, 417, 441
TOSHIBA	405, 409, 414, 417, 428
MITSUBISHI	407, 409, 414
SHARP	402
ORION	445, 446, 424
SANYO	444
FERGUSON	417, 449, 450
BLAUPUNKT	432, 408, 417, 455
NOKIA	442, 444, 417
SELECO	417
AIWA	446, 441
AKIBA	453
ALBA	446, 447, 448, 452, 424
AMBASSADOR	452
AMSTRAD	441
ANITECH	453
ASA	411, 414

VCR 2/3

Manufacturer	Code
BAIRD	444, 417, 441, 450
BASIC LINE	448, 452, 453
BRANDT	449, 451
BRANDT ELECTRONIQUE	417
BUSH	446, 447, 448, 424, 453
CATRON	452
CGB	441
CIMLINE	453
CLATRONIC	452
CONDOR	452
CROWN	448, 452, 453
DAEWOO	448, 452
DANSAI	453
DE GRAAF	406
DECCA	414, 441
DUAL	417
DUMONT	444, 414, 441
ELCATECH	453
FIDELITY	441
FINLANDIA	444, 414
FINLUX	406, 444, 414, 441
FIRSTLINE	405, 409, 411, 424, 453
FISHER	444
FRONTECH	452
FUNAI	441
GBC	414
GENERAL	452
GOLDSTAR	411
GOODMANS	411, 448, 441, 452, 453
GRAETZ	444, 417
GRANADA	444, 414
GRANDIENTE	441
GRANDIN	411, 441, 453
HCM	453, 454
HINARI	445, 446, 453, 454
HYPSON	453
IMPERIAL	441
INTERFUNK	414
ITT	442, 444, 417, 428
ITV	411, 448
KAISUI	453
KENDO	444, 424
KORPEL	453
LEYCO	453
LOEWE	411, 414
LUXOR	442, 409, 444
M-ELECTRONIC	441
MANESTH	405, 453
MARANTZ	414
MATSUI	445, 446, 424
MEMOREX	444, 411, 441
MEMPHIS	453
METZ	432, 455
MINERVA	455
MULTITECH	441, 453
MURPHY	441
NBC	407, 417
NECKERMANN	414
NESCO	453

VCR 3/3

Manufacturer	Code
NORDMENDE	417, 428
OCEANIC	417, 441
OSAKI	411, 441, 453
OTTO VERSAND	414
PALLADIUM	411, 417, 453
PATHE MARCONI	417
PENTAX	406
PERDIO	441
PHONOLA	414
PORTLAND	452
PROLINE	441, 454
PYE	414
QUELLE	414
RADIOLA	414
REX	417, 428
ROADSTAR	411, 448, 453
SABA	417, 449, 428
SAISHO	445, 424
SALORA	442, 409
SANSUI	407, 417
SBR	414
SCHAUB LORENZ	417, 441
SCHNEIDER	414, 441, 453
SEI	414
SENTRA	452
SHINTOM	453
SIEMENS	444, 411, 455
SINGER	405
SINUDYNE	414
SOLAVOX	452
SUNSTAR	441
SUNTRONIC	441
TASHIKO	441
TATUNG	414, 417, 441
TEC	452
TELEAVIA	417
TELEFUNKEN	417, 449, 451, 428
TENOSAL	453
TENSAI	441
THORN	444, 417
UNIVERSUM	442, 411, 414, 441, 455
YAMISHI	453
YOKAN	453
YOKO	452
PIONEER	400, 443, 407, 414, 456(DVR)

TAPE DECK 1/2

Manufacturer	Code
AKAI	829
ARCAM	810
DENON	810, 827
FISHER	813
GRUNDIG	821
JVC	802
KENWOOD	804, 807, 822
LUXMAN	815
MARANTZ	821
MEMOREX	825
MITSUBISHI	829

[Preset Code List for VSX-859RDS]

TAPE DECK 2/2

Manufacturer	Code
NAKAMICHI	816
ONKYO	817, 819
PHILIPS	821
SANSUI	824
SHERWOOD	818
SONY	814, 823
TANDBERG	820
TECHNICS	803
TOSHIBA	826, 828
YAMAHA	811, 822
PIONEER	800, 825

CD PLAYER

Manufacturer	Code
AKAI	335
ARCAM	336
ASUKA	337
AUDIO TON	336
BUSH	332
CALIFORNIA AUDIO LAB	304
CYRUS	336
DENON	309
DUAL	337, 319
FISHER	340
GOLDSTAR	330
GRUNDIG	336
HITACHI	334
INTERSOUND	337
JVC	331
KENWOOD	310, 311
KODAK	322
LINN	336
LUXMAN	341
M ELECTRONIC	344
MARANTZ	304, 336
MATSUI	336
MCS	304
MEMOREX	300
MERIDIAN	336
MITSUBISHI	335
NAD	316
NAIM	336
ONKYO	342
PANASONIC	304
PHILIPS	336, 322
QUAD	336
QUASER	304
ROADSTAR	344
ROTEL	336
SABA	319
SANYO	340
SHARP	343
SONY	329, 316
TECHNICS	304, 333
TELEFUNKEN	319
THOMSON	319
UNIVERSUM	336
YAMAHA	338, 339
PIONEER	300

CD RECORDER

Manufacturer	Code
PHILIPS	346
PIONEER	345

TV 1/4

Manufacturer	Code
PHILIPS	631, 607, 634, 656
SONY	604
GRUNDIG	631, 653
PANASONIC	631, 608, 642, 622
TOSHIBA	605, 653
TELEFUNKEN	636, 637, 652
SHARP	602
SAMSUNG	607, 638, 644, 646
HITACHI	631, 633, 634, 636, 642, 643, 654, 606
SABA	631, 636, 642, 651
BRANDT	636
SANYO	635, 645, 648
THOMSON	636, 651, 652
FERGUSON	607, 636, 651
NOKIA	632, 642, 652
MITSUBISHI	631, 609
SCHNEIDER	607, 641, 647
GOLDSTAR	607, 650
BLAUPUNKT	631
NORDMENDE	632, 636, 651, 652
RADIOLA	607
JVC	613
DAEWOO	607, 644, 656
ORION	632, 607, 639, 640
SIEMENS	631
ACURA	644
ADMIRAL	631
AKAI	632, 635, 642
AKURA	641
ALBA	607, 639, 641, 644
AMSTRAD	642, 644, 647
ANITECH	644
ASA	645
ASUKA	641
AUDIOGONIC	607, 636
BASIC LINE	641, 644
BAUR	631, 607, 642
BEKO	638
BEON	607
BLUE SKY	641
BLUE STAR	618
BPL	618
BTC	641
BUSH	607, 641, 642, 644, 647, 656
CASCADE	644
CATHAY	607
CENTURION	607
CGB	642
CIMLINE	644
CLARIVOX	607
CLATRONIC	638
CONDOR	638
CONTEC	644
CROSLEY	632
CROWN	638, 644
CRYSTAL	642
CYBERTRON	641
DAINICHI	641
DANSAI	607
DAYTON	644
DECCA	607, 648
DIXI	607, 644
DUMONT	653

TV 2/4

Manufacturer	Code
ELIN	607
ELITE	641
ELTA	644
EMERSON	642
ERRES	607
FINLANDIA	635, 643, 655
FINLUX	632, 607, 645, 648, 653, 654, 655
FIRSTLINE	640, 644
FISHER	632, 635, 638, 645
FORMENTI	632, 607, 642
FRONTECH	631, 642, 646
FRONTECH/PROTECH	632
FUJITSU	648
FUNAI	640, 646
GBC	632, 642
GEC	607, 634, 648
GELOSO	632, 644
GENEXXA	631, 641
GOODMANS	607, 639, 647, 648, 656
GORENJE	638
GPM	641
GRAETZ	631, 642
GRANADA	607, 635, 642, 643, 648
GRANDIENTE	657
GRANDIN	618
HANSEATIC	607, 642
HCM	618, 644
HINARI	607, 641, 644
HISAWA	618
HUANYU	656
HYPSON	607, 618, 646
ICE	646, 647
IMPERIAL	638, 642
INDIANA	607
INGELEN	631
INTERFUNK	631, 632, 607, 642
INTERVISION	646, 649
ISUKAI	641
ITC	642
ITT	631, 632, 642
JEC	605
KAISUI	618, 641, 644
KAPSCH	631
KENDO	642
KENNEDY	632, 642
KORPEL	607
KOYODA	644
LEYCO	607, 640, 646, 648
LIESENK&TTER	607
LUXOR	632, 642, 643
M ELECTRONIC	631, 644, 645, 654, 655, 656
M-ELECTRONIC	607, 636, 651
MAGNADYNE	632, 649
MAGNAFON	649
MANESTH	639, 646
MARANTZ	607
MARK	607
MATSUI	607, 639, 640, 642, 644, 647, 648
MCMICHAEL	634
MEDIATOR	607

TV 3/4

Manufacturer	Code
MEMOREX	644
METZ	631
MINERVA	631, 653
MULTITECH	644, 649
NECKERMANN	631, 607
NEI	607, 642
NIKKAI	605, 607, 641, 646, 648
NOBLIKO	649
OCEANIC	631, 632, 642
OSAKI	641, 646, 648
OSO	641
OSUME	648
OTTO VERSAND	631, 632, 607, 642
PALLADIUM	638
PANAMA	646
PATHO CINEMA	642
PAUSA	644
PHILCO	632, 642
PHOENIX	632
PHONOLA	607
PROFEX	642, 644
PROTECH	607, 642, 644, 646, 649
QUELLE	631, 632, 607, 642, 645, 653
R-LINE	607
RBM	653
REDIFFUSION	632, 642
REX	631, 646
ROADSTAR	641, 644, 646
SAISHO	639, 644, 646
SALORA	631, 632, 642, 643
SAMBERS	649
SBR	607, 634
SCHAUB LORENZ	642
SEG	642, 646
SEI	632, 640, 649
SELECO	631, 642
SIAREM	632, 649
SINUDYNE	632, 639, 640, 649
SKANTIC	643
SOLAVOX	631
SONOKO	607, 644
SONOLOR	631, 635
SONTEC	607
SOUNDWAVE	607
STANDARD	641, 644
STERN	631
SUSUMU	641
SYSLINE	607
TANDY	631, 641, 648
TASHIKO	634
TATUNG	607, 648
TEC	642
TELEAVIA	636
TELETECH	644
TENSAI	640, 641
THORN	631, 607, 642, 645, 648
TOMASHI	618
TOWADA	642
ULTRAVOX	632, 642, 649
UNIVERSUM	631, 607, 638, 642, 645, 646, 654, 655

TV 4/4

Manufacturer	Code
VESTEL	607
VOXSON	631
WALTHAM	643
WATSON	607
WATT RADIO	632, 642, 649
WHITE WESTINGHOUSE	607
YOKO	607, 642, 646
PIONEER	672, 631, 632, 607, 636, 642, 651

MD RECORDER & DAT

Manufacturer	Code
SONY	901
KENWOOD	903
SHARP	902
TEAC	904
ONKYO	905
DENON	906
PIONEER	900, 902, 907(DAT)

TUNER

Manufacturer	Code
PIONEER	500

[Preset Code List for VSX-859RDS]

Preset Code List for VSX-839RDS

CABLE TV

Manufacturer	Code
ABC	1003, 1014, 1017
BT	1105
Birgmingham Cable Communications	1276
British Telecom	1003, 1105
Cabletime	1161, 1271
Clyde	1086
Decsat	1423
Filmnet	1443
France Telecom	1451
GEC	1086
Galaxi	1008
General Instrument	1276
Goldstar	1144
Jerrold	1003, 1014, 1276
MNet	1019, 1443
Movie Time	1156
Oak	1019
PVP Stereo Visual Matrix	1003
Philips	1451
Pioneer	1144, 1533
STS	1156
Salora	1382
Scientific Atlanta	1008, 1017, 1277
Starcom	1003
Tele+1	1443
United Cable	1003
Videoway	1250
Visiopass	1451
Westminster	1105
Zenith	1000

CD, CD-R, MD PLAYER (1/2)

Manufacturer	Code
Aiwa	0124
Akai	0108, 0156, 0199
Arcam	0157
Audio Research	0157
AudioTon	0157
Audiolab	0157
Audiomeca	0157
Bestar	0164
Condor	0134, 0164
Cyrus	0157
Denon	0003, 0034, 0873(MD)
Dual	0196
Fisher	0179
Grundig	0157
Harman/Kardon	0108, 0173
IR	0000
JVC	0072
Kenwood	0028, 0036, 0190, 0626, 0681, 1059
Linn	0157
Marantz	0038, 0129, 0157
Matsui	0157
Memorex	0164
Meridian	0157

CD, CD-R, MD PLAYER (2/2)

Manufacturer	Code
Micromega	0157
Mitsubishi	0108, 0156
NAD	0000
Naim	0157
Onkyo	0101, 0102, 0868
Optimus	0000, 0032, 0179, 0196
Orion	1044
PMG	0164
Philips	0157, 0626
Pioneer	0032, 0192, 0244, 0468, 1062(CD-R), 1063(MD), 1087
Poppy	0164
Proton	0157
QED	0157
Quad	0157
Revox	0157
Rotel	0157
Sansui	0202
Sanyo	0179
Schneider	0134
Sharp	0037, 0861
Sherwood	0114, 0196
Sony	0000, 0490
Technics	0029, 0207
Thorens	0157
Universum	0157
Yamaha	0036, 0187

CASSETTE DECK

Manufacturer	Code
Aiwa	1197, 1200
Akai	1188, 1189
Arcam	1076
Denon	1076, 1412
Grundig	1029
Harman/Kardon	1182
JVC	1244, 1273, 1274
Kenwood	1070, 1071, 1233, 1234
Marantz	1029
Memorex	1099, 1101
Mitsubishi	1189
Onkyo	1135, 1136
Optimus	1220
Panasonic	1229
Philips	1029
Pioneer	1027, 1099, 1101, 1220
Revox	1029
Sony	1170, 1243
Technics	1229
Thorens	1029
Yamaha	1205

LASERDISC PLAYER

Manufacturer	Code
Cyrus	0388
Marantz	0064, 0194
Philips	0064, 0194, 0388
Pioneer	0059
Radiola	0388
Salora	0064
Sony	0193, 0201
Telefunken	0059

AMPLIFIER

Manufacturer	Code
Audiolab	0269
Denon	0160
Grundig	0269
Marantz	0269
Micromega	0269
Philips	0269
Pioneer	0257
Revox	0269
Tandberg	0206
Thorens	0269
Yamaha	0354

DAT

Manufacturer	Code
Denon	0031
Grundig	0158
Marantz	0158
Onkyo	0019
Philips	0158
Pioneer	0019
Sony	0093
Technics	0158

VIDEO

Manufacturer	Code
Pioneer	1010
Sharp	1010

SATELLITE TUNER (1/5)

Manufacturer	Code
ABsat	1123, 1668
AGS	1668
ASA	1397
AST	1351
Aegir	1520
Akai	1200
Akena	1668
Alba	1362, 1421, 1455, 1519, 1613
Aldes	1288, 1362, 1519, 1520
Allsat	1067, 1183, 1200
Allsonic	1288, 1369
Alpha	1668
Ampere	1396
Amstrad	1080, 1243, 1252, 1345, 1396, 1461, 1501, 1509
Ankaro	1220, 1288, 1369, 1519
Anttron	1183, 1421, 1613
Apollo	1421
Arcon	1332
Armstrong	1243
Asat	1200
Astacom	1668
Astra	1108, 1243, 1344, 1346, 1513, 1530
Astro	1173, 1369, 1501, 1520, 1613
Athena	1668
AudioTon	1613
Avalon	1396
Axiel	1668
Axis	1369, 1530, 1834
BT	1668
Beko	1189
Best	1369
Bestar	1243
Blaupunkt	1173
Boca	1243, 1513
Brain Wave	1332
British Sky Broadcasting	1847
Broadcast	1346
Broco	1530
Bush	1067, 1183, 1362
CNT	1520
Cambridge	1344
Canal Satellite	1853
Canal+	1853
Channel Master	1362
Clatronic	1332
Clemens Kamphus	1502
Colombia	1668
Columbus	1668
Commander	1220
Commlink	1288
Condor	1369
Connexions	1396
Conrad	1369
Cosat	1592
Crown	1243
Cyrus	1200
D-box	1723

SATELLITE TUNER (2/5)

Manufacturer	Code
DDC	1362
DNT	1200, 1396
DST	1421
Dansat	1183
Discovery	1668
Ditristrad	1592
Dune	1369
EP Sat	1455
Echostar	1396, 1453, 1668, 1853, 1871
Einhell	1243, 1252, 1288, 1421, 1501, 1513
Elta	1200, 1369, 1421
Emanon	1421
Emme Esse	1369, 1502, 1871
Eurocrypt	1108, 1455
Europa	1220, 1501
Eurosat	1243
Eurosky	1243, 1369
Exator	1421, 1613
Extra Sat	1519
FTE	1369, 1863
Fenner	1668
Ferguson	1067, 1183, 1189, 1336, 1455
Fidelity	1252, 1461, 1501
Finlandia	1108, 1455
Finlux	1108, 1344, 1397, 1455, 1573
Fracarro	1421, 1668, 1871
Freecom	1421, 1501
Fuba	1108, 1173, 1369, 1396, 1421, 1573
G-Sat	1183
Galaxis	1288, 1369, 1530, 1592, 1834, 1863
General Instrument	1201
Gold Box	1292, 1853
Gooding	1571
Goodmans	1189, 1455
Granada	1108, 1455
Grundig	1173, 1189, 1345, 1571
Hanseatic	1605
Hantor	1332, 1421
Hanuri	1520
Harting und Helling	1502
Hinari	1183, 1362, 1421
Hirschmann	1173, 1396, 1397, 1501, 1502, 1573, 1882
Hisawa	1332
Hitachi	1455
Houston	1220, 1461, 1592, 1668
Humax	1863
Huth	1220, 1243, 1288, 1332, 1346, 1502
IR	1067, 1092, 1108, 1173, 1183, 1252, 1282, 1455, 1461
ITT	1108
InVideo	1871
Intertronic	1243
Intervision	1592

SATELLITE TUNER (3/5)

Manufacturer	Code
JVC	1571
Johansson	1332
KR	1613
Kathrein	1092, 1123, 1173, 1200, 1442, 1504, 1613
Kolon	1421
Kosmos	1442, 1502
Kreiselmeyer	1173
Kyostar	1360, 1421, 1613
La Sat	1243, 1369, 1513, 1520
Lenco	1220, 1421, 1530, 1605
Lennox	1592
Lenson	1501
Lifesat	1369, 1605
Loewe	1243
Lorenzen	1220
Lupus	1369
Luxor	1108, 1345, 1573
M&B 1	1605
Manhattan	1455, 1520, 1592
Marantz	1200
Mascom	1520
Maspro	1092, 1173, 1336, 1571
Matsui	1173, 1344, 1362, 1571
MediaSat	1292, 1501, 1530, 1853
Mediabox	1292
Mediamarkt	1243
Medion	1369
Mega	1200
Metronic	1243, 1288, 1421, 1519, 1520, 1613
Metz	1173
Micro Tech	1530
Minerva	1571
Mitsubishi	1455
Mitsumi	1513
Morgan's	1200, 1243, 1513
NTC	1502
Navex	1332
Neuhaus	1220, 1501, 1530, 1592, 1834
Neusat	1834
Nikko	1200, 1243, 1360
Nokia	1108, 1397, 1455, 1573, 1723, 1873
Nordmende	1362, 1421, 1455, 1520
Novis	1332
OSAT	1345
Octagon	1220, 1421, 1613
Okano	1243, 1502, 1668
Optex	1834
Orbit	1351
Orbitech	1421, 1501
Oxford	1344, 1668
Pace	1067, 1183, 1200, 1241, 1336, 1455, 1791, 1847
Palcom	1362

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SATELLITE TUNER (4/5)

Manufacturer	Code
Palladium	1243, 1421, 1501, 1571
Palsat	1501
Panasonic	1455
Panda	1067, 1108, 1455
Patriot	1668
Philips	1133, 1173, 1183, 1189, 1200, 1220, 1292, 1455, 1571, 1613, 1853
Phoenix	1183
Phonotrend	1288, 1502, 1592
Pioneer	1292, 1329, 1853
Planet	1396
Polytron	1396
Predki	1332, 1421
Premier	1292, 1502, 1592
ProVision	1520
Promax	1455
Prosat	1288, 1362
Provisat	1520
Pye	1571
Pyxis	1834
Quadral	1288, 1362, 1369, 1519, 1668
Quelle	1252
RFT	1200, 1220, 1288
Radiola	1200
Radix	1396, 1882
Rainbow	1613
Red Star	1369
Redpoint	1530
SAT	1351, 1362, 1461, 1501
SEG	1369, 1421, 1519, 1605
SR	1513
Saba	1183, 1336, 1520
Sabre	1455
Sagem	1820
Salora	1108
SatPartner	1332, 1421, 1501, 1502, 1520, 1613
Satcom	1346, 1605
Satec	1183, 1834
Satelco	1369
Satford	1346
Satmaster	1346
Schacke	1613
Schneider	1668
Schwaiger	1183, 1504, 1605
Sedea Electronique	1421
Seemann	1243, 1396, 1530
Seleco	1592, 1871
Siemens	1173
Skardin	1530
Skymaster	1288, 1519, 1605
Skymax	1200
Skytwin	1519
Sony	1278, 1282, 1292
Starring	1332
Strong	1369, 1421, 1520, 1613, 1872
Sumida	1243
Sunny Sound	1369

SATELLITE TUNER (5/5)

Manufacturer	Code
Sunsat	1530
Sunstar	1243, 1369, 1513
TPS	1820
Tantec	1336, 1455
Tatung	1455
TechniSat	1005, 1501
Techniland	1346, 1592
Teco	1243
Telasat	1605
Teleciel	1613
Teledirekt	1183
Telefunken	1421
Teleka	1243, 1396, 1501, 1613
Telemaster	1520
Telesat	1605
Telestar	1501
Televes	1455, 1501
Telewire	1592
Thomson	1292, 1455, 1853
Thorn	1455
Tonna	1346, 1455, 1501, 1592, 1668
Toshiba	1455
Trendline	1513
Trendplain	1513
Triad	1351
Triasat	1501
Unisat	1200, 1243
Unitor	1332
Universum	1173, 1397, 1571
VTech	1351
Variosat	1173
Ventana	1200
Viva	1220
Vortec	1421
Wewa	1455
Winersat	1332
Wintergarten	1288
Wisi	1173, 1351, 1396, 1455
Woorisat	1520
XSat	1123, 1668, 1889
Xcom Multimedia	1668, 1889
Xrypton	1369
Zehnder	1369, 1419, 1504, 1520, 1552
Zeta Technology	1200
Zodiac	1613
Zwergnase	1243

TELEVISION (1/11)

Manufacturer	Code
Abex	0032
Acura	0009
Admiral	0163, 0213
Adyson	0032, 0068, 0216, 0217
Aiko	0217, 0264
Akai	0035, 0037, 0072, 0163, 0191, 0208, 0371
Akib	0294
Akiba	0037, 0218, 0282, 0294, 0455

TELEVISION (2/11)

Manufacturer	Code
Akura	0009, 0037, 0218, 0264, 0282
Alba	0009, 0036, 0037, 0163, 0216, 0218, 0247, 0371, 0418, 0431
Allorgan	0206, 0217, 0294
Allstar	0037
Amplivision	0217, 0320, 0370
Amstrad	0009, 0037, 0218, 0264, 0371
Anam National	0650
Anglo	0264
Anitech	0009, 0037, 0068, 0076, 0264, 0282
Ansonic	0009, 0037, 0102, 0292, 0370
Arc En Ciel	0196
Arcam	0216, 0217
Aristona	0037
Asberg	0076, 0102
Asora	0009
Asuka	0217, 0218, 0264
Atlantic	0206, 0320
AudioTon	0217, 0264
Audiosonic	0009, 0037, 0109, 0217, 0218, 0264, 0370
Autovox	0076, 0206, 0217, 0247
BPL	0037, 0282
BSR	0294
BTC	0218
Baird	0072, 0073, 0190, 0208, 0217
Bang & Olufsen	0565
Basic Line	0009, 0037, 0217, 0218, 0282, 0374, 0455
Baur	0010, 0037, 0146, 0303, 0554
Bazin	0217
Beko	0037, 0370
Beon	0032, 0037, 0418
Best	0370
Bestar	0037, 0370, 0374
Binatone	0217
Blaupunkt	0191, 0195, 0200, 0213, 0554
Blue Sky	0037, 0218, 0282, 0455
Blue Star	0282
Bondstec	0247
Boots	0217
Brandt	0109, 0196, 0198, 0205, 0287
Brinkmann	0037, 0418
Britannia	0216, 0217
Bush	0009, 0036, 0037, 0208, 0217, 0218, 0264, 0282, 0294, 0371, 0374
CCE	0037
CGE	0074, 0076, 0084, 0247, 0306, 0370, 0418

TELEVISION (3/11)

Manufacturer	Code
CS Electronics	0216, 0218, 0247
CTC	0247
Canton	0218
Carena	0037, 0455
Carrefour	0036, 0037
Cascade	0009, 0037
Cathay	0037
Centurion	0037
Century	0213, 0247
Cimline	0009, 0218
City	0009
Clarivox	0037, 0102
Clatronic	0009, 0037, 0076, 0102, 0217, 0218, 0247, 0320, 0370, 0371
Condor	0009, 0037, 0102, 0247, 0282, 0320, 0370
Conic	0032
Contec	0009, 0036, 0216
Continental Edison	0109, 0196, 0198, 0205, 0287
Cosmel	0037
Crezar	0213
Crosley	0074, 0076, 0084, 0213, 0247
Crown	0009, 0037, 0076, 0208, 0370, 0418
Crystal	0431
Curtis Mathes	0093, 0166
Cybertron	0218
DER	0190
Daewoo	0009, 0037, 0217, 0218, 0374
Dainichi	0215, 0216, 0218
Dansai	0032, 0035, 0036, 0037, 0216
Dayton	0009
Daytron	0374
De Graaf	0208
Decca	0037, 0072, 0075, 0217
Denko	0264
Denver	0037
Desmet	0009, 0037
Diamant	0037
Dixi	0009, 0037
Dual	0037, 0217, 0259, 0303
Dual Tec	0217
Dumont	0070, 0102, 0213
EMI	0005
Elbe	0217, 0238, 0259, 0292
Elekta	0264
Elin	0009, 0037
Elite	0218, 0320
Elman	0102
Elta	0009, 0068, 0431
Emco	0247
Emerson	0037, 0070, 0213, 0247, 0282, 0320, 0371
Emperor	0282

TELEVISION (4/11)

Manufacturer	Code
Erres	0012, 0037
Euromann	0037, 0264
Europa	0037
Europhon	0102, 0213, 0217
Expert	0206, 0215
Exquisit	0037
FNR	0102
Fenner	0009, 0374
Ferguson	0005, 0037, 0073, 0109, 0190, 0192, 0238, 0287
Fidelity	0163, 0216, 0264, 0371
Filsai	0217
Finlandia	0072, 0163, 0208
Finlux	0037, 0070, 0072, 0102, 0105, 0217
Firstline	0009, 0037, 0072, 0216, 0217, 0238, 0247, 0294, 0321, 0374
Fisher	0036, 0072, 0157, 0208, 0217, 0303, 0370
Flint	0037, 0072, 0218, 0264, 0455
Formenti	0037, 0213, 0216, 0320
Fraba	0037, 0370
Friac	0009, 0102, 0370
Frontech	0009, 0163, 0217, 0247, 0264, 0431
Fujitsu	0072, 0102, 0206, 0217
Funai	0264, 0294, 0303
GBC	0009, 0213, 0218, 0374
GE	0093
GEC	0037, 0043, 0072, 0163, 0205, 0217
GPM	0218
Galaxi	0037, 0102
Galaxis	0037, 0370
Geloso	0009, 0213, 0374
General Technic	0009
Genexxa	0009, 0163, 0218
Germanvox	0213
GoldStar	0032, 0037, 0109, 0163, 0216, 0217, 0247, 0290, 0431
Goodmans	0009, 0032, 0035, 0036, 0037, 0072, 0217, 0218, 0264, 0371, 0374
Gorenje	0370
Gradiente	0053
Graetz	0163
Granada	0037, 0072, 0075, 0108, 0146, 0208, 0215, 0217, 0226
Grandin	0009, 0037, 0163, 0215, 0282, 0320, 0374, 0455
Grundig	0009, 0037, 0070, 0076, 0191, 0195, 0205, 0215, 0554

TELEVISION (5/11)

Manufacturer	Code
HCM	0009, 0037, 0217, 0218, 0264, 0282, 0418
Halifax	0217
Hampton	0216, 0217
Hanimex	0294
Hanseatic	0009, 0037, 0217, 0282, 0320, 0431
Hantarex	0037, 0213
Hantor	0037
Harley Davidson	0043
Harvard	0068
Harwood	0009, 0032, 0037
Hema	0009, 0217
Hifivox	0196, 0198
Hikona	0218
Hinari	0009, 0036, 0037, 0218
Hisawa	0218, 0282, 0455
Hitachi	0032, 0036, 0037, 0043, 0044, 0072, 0105, 0109, 0163, 0196, 0198, 0213, 0217, 0225, 0306
Hornyphone	0037
Huanyu	0216, 0374
Hyper	0009, 0216, 0217, 0247
Hypson	0037, 0264, 0282, 0455
ICE	0216, 0217, 0218, 0264, 0371
ICeS	0216, 0218
IR	0010, 0012, 0032, 0035, 0036, 0037, 0043, 0070, 0072, 0073, 0076, 0093, 0101, 0102, 0105, 0108, 0109, 0146, 0157, 0163, 0190, 0191, 0192, 0195, 0196, 0205, 0206, 0213, 0215, 0216, 0217, 0225, 0226, 0238, 0243, 0247, 0287, 0290, 0291, 0292, 0294, 0303, 0306, 0320, 0370, 0374, 0554
ITS	0216, 0264, 0371
ITT	0163, 0208
ITV	0037, 0264
Iberia	0037
Imperial	0074, 0076, 0084, 0247, 0370, 0418
Indesit	0213
Indiana	0037
Ingelen	0163
Ingersol	0009
Inno Hit	0009, 0072, 0217, 0290
Interbuy	0037, 0068, 0264
Interfunk	0012, 0037, 0163, 0247
Internal	0037

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TELEVISION (6/11)

Manufacturer	Code
Intervision	0037, 0068, 0102, 0217, 0218, 0247, 0264, 0282, 0431, 0455
Irradio	0218, 0247, 0290, 0371
Isukai	0037, 0218, 0282, 0455
JVC	0036, 0053, 0190, 0192, 0218, 0371, 0418, 0653
KB Aristocrat	0163
KTV	0217
Kaisui	0009, 0037, 0216, 0217, 0218, 0282, 0455
Kamp	0216
Kapsch	0163, 0206
Karcher	0102, 0282
Kasui	0282
Kendo	0037, 0102, 0247
Kennedy	0206, 0213
Kingsley	0216
Kneissel	0037, 0238, 0259, 0292, 0374
Kolster	0037
Konka	0218, 0371
Korpel	0037
Korting	0320
Kosmos	0037
Koyoda	0009
Kraking	0238
Kuba Electronic	0303
Kyoshu	0032
Kyoto	0032, 0163
Leyco	0037, 0072, 0264, 0294
Liesenk & Tter	0037
Liesenkotter	0037
Lifetec	0037, 0218, 0374
Lloytron	0032
Loewe	0037, 0075, 0292
Logik	0005
Luma	0206, 0259
Lumatron	0217
Luxor	0163, 0208, 0290
M Electronic	0009, 0037, 0068, 0105, 0109, 0163, 0216, 0217, 0247, 0287, 0374
MTC	0370
MTEC	0032
Magnadyne	0102, 0247
Magnafon	0073, 0076, 0102, 0213, 0216
Magnavox	0036
Magnum	0037
Manesth	0035, 0037, 0217, 0264, 0294, 0320
Marantz	0037
Mark	0037
Matsui	0009, 0035, 0036, 0037, 0072, 0163, 0191, 0195, 0208, 0217, 0294, 0371, 0455

TELEVISION (7/11)

Manufacturer	Code
Matsushita	0250, 0650
McMichael	0043
Mediator	0012, 0037
Medion	0037
Memorex	0009, 0150, 0250
Metz	0037, 0213, 0554
Midland	0032
Minerva	0070, 0554
Mitsubishi	0036, 0037, 0093, 0108, 0150
Mivar	0216, 0290, 0291, 0292
Monaco	0009
Motion	0076
Motorola	0093
Multitech	0009, 0075, 0076, 0102, 0216, 0217, 0247
Murphy	0072, 0163, 0216
NEC	0320
NEI	0037, 0371, 0431
Nakimura	0037, 0374
Neckermann	0037, 0191, 0213, 0247, 0320, 0370, 0418, 0554
Nesco	0247
Network	0032
Neufunk	0037
New Tech	0217
Nikkai	0009, 0032, 0035, 0036, 0037, 0072, 0216, 0217, 0218, 0264
Nobliko	0070, 0076, 0102, 0216
Nogamatic	0196
Nokia	0163, 0208, 0320, 0374
Nordmende	0109, 0195, 0196, 0198, 0213, 0287
Novak	0012
Novatronic	0037, 0105
Oceanic	0163, 0208, 0215
Okano	0009, 0037, 0264, 0370
Omega	0264
Onwa	0102, 0218, 0371
Optimus	0650
Orion	0037, 0294, 0320, 0321
Orline	0037, 0218
Osaki	0032, 0037, 0072, 0217, 0218, 0264, 0374
Osio	0037
Oso	0218
Osume	0032, 0036, 0037, 0072, 0157, 0218
Otto Versand	0010, 0036, 0037, 0093, 0109, 0191, 0213, 0217, 0226, 0247, 0294, 0303, 0320, 0554
Pael	0216
Palladium	0370, 0418

TELEVISION (8/11)

Manufacturer	Code
Panama	0037, 0217, 0247, 0264
Panasonic	0037, 0163, 0213, 0214, 0226, 0250, 0650
Panavision	0037
Pathe Cinema	0163, 0213, 0215, 0216, 0238, 0320
Pathe Marconi	0196, 0198, 0205
Pausa	0009
Perdio	0037, 0163, 0320
Phase	0032
Philco	0037, 0074, 0076, 0084, 0213, 0247, 0370, 0418
Philips	0012, 0037, 0043, 0374, 0423, 0554
Phoenix	0216, 0320
Phonola	0012, 0037, 0216
Pioneer	0037, 0109, 0163, 0166, 0287, 0423, 0679
Plantron	0009
Playsonic	0217
Portland	0374
Prandoni Prince	0213
Precision	0217
Prima	0068, 0264
Profex	0009, 0076, 0163, 0431
Profi	0009
Profitronic	0037, 0102
Proline	0072, 0321
Prosonic	0037
Protech	0009, 0037, 0102, 0217, 0247, 0264, 0418, 0431
Pye	0012, 0037, 0554
Quadra Vision	0215
Quasar	0247, 0250
Quelle	0010, 0037, 0070, 0074, 0084, 0200, 0213, 0306, 0554
Questa	0032, 0036
Questar	0032
R-Line	0037
RBM	0070
RCA	0090, 0093
RFT	0072
Radialva	0037, 0218, 0431
Radio Shack	0037
Radiola	0012, 0037, 0217
Radiomarelli	0037, 0247
Radiotone	0009, 0037, 0264
Rank Arena	0036
Realistic	0032
Recor	0037
Redstar	0037
Reflex	0037
Revox	0037
Rex	0163, 0206, 0259, 0264
Roadstar	0009, 0037, 0218, 0264, 0418
SBR	0012, 0037, 0043

TELEVISION (9/11)

Manufacturer	Code
SEG	0009, 0036, 0037, 0076, 0102, 0217, 0264
SEI	0010, 0102, 0206, 0213, 0294
SEI-Sinudyne	0037, 0213
Saba	0075, 0109, 0163, 0196, 0198, 0205, 0213, 0287
Saccs	0238
Sagem	0455
Saisho	0009, 0217, 0264, 0431
Salora	0163, 0290
Sambers	0076, 0102, 0213
Sampo	0032
Samsung	0009, 0032, 0037, 0072, 0090, 0208, 0216, 0217, 0264, 0290, 0370
Samung	0037
Sandra	0216, 0217
Sansui	0037
Sanyo	0036, 0072, 0108, 0146, 0157, 0208, 0213, 0216, 0217, 0370
Sanyong	0032
Schneider	0012, 0037, 0217, 0218, 0247, 0259, 0303, 0371
Scotland	0163
Sears	0146
Seleco	0163, 0206, 0259
Sencora	0009
Sentra	0035, 0218
Serino	0216, 0455
Sharp	0036, 0093, 0157, 0294
Shintoshi	0037
Shorai	0294
Siarem	0102, 0213
Siemens	0032, 0037, 0146, 0157, 0191, 0195, 0200, 0213, 0554
Silva	0216
Silver	0036
Singer	0102, 0215
Sinudyne	0010, 0102, 0206, 0213, 0294
Solavox	0032, 0072, 0163
Sonitron	0208, 0370
Sonoko	0009, 0037, 0282
Sonolor	0163, 0208, 0215
Sontec	0009, 0037, 0294, 0370
Sony	0010, 0036, 0102
Sound & Vision	0102, 0374
Soundwave	0037, 0320, 0418
Ssangyong	0009, 0032
Stag	0032
Standard	0009, 0037, 0217, 0218, 0320, 0374
Stenway	0218, 0282

TELEVISION (10/11)

Manufacturer	Code
Stern	0163, 0206, 0259, 0264
Strato	0037, 0264
Stylandia	0217
Sunkai	0294, 0321, 0455
Sunstar	0009, 0037, 0371
Sunwood	0037
SuperTech	0009, 0037, 0216
Supra	0009
Susumu	0218
Sysline	0037
Sytong	0216
Tandy	0072, 0093, 0163, 0217, 0218
Tashiko	0032, 0036, 0043, 0146, 0163, 0216, 0217
Tatung	0037, 0072, 0217
Tec	0009, 0217, 0247, 0259
Technema	0320
Technics	0250, 0650
Teleavia	0196, 0205
Telefunken	0005, 0037, 0073, 0074, 0084, 0101, 0109, 0196, 0213, 0306
Telegazi	0037
Telemeister	0037, 0320
Telesonic	0037
Telestar	0037
Teletech	0009, 0037
Teleton	0036, 0206, 0217, 0259
Televideon	0216, 0320
Televiso	0215
Temco	0294
Tennessee	0037
Tensai	0009, 0037, 0105, 0217, 0218, 0247, 0294, 0320, 0371, 0374
Tenson	0320
Texet	0009, 0216, 0218, 0374
Thomson	0037, 0109, 0196, 0198, 0205, 0287
Thorn	0005, 0035, 0037, 0072, 0073, 0074, 0084, 0190, 0192, 0238, 0374
Tokai	0009, 0037, 0163
Tokyo	0035
Tomashi	0282
Toshiba	0035, 0036, 0070, 0102, 0109, 0243
Trans Continens	0217
Trical	0157
Tristar	0218
Triumph	0243
Tsoschi	0282
Uher	0037, 0206, 0303, 0320, 0374, 0418
Ultra	0192

TELEVISION (11/11)

Manufacturer	Code
Ultravox	0037, 0102, 0213, 0216, 0247
Unic Line	0037
United	0037
Universum	0009, 0010, 0032, 0036, 0037, 0070, 0076, 0105, 0146, 0157, 0213, 0217, 0247, 0264, 0290, 0294, 0306, 0370, 0418, 0554
Univox	0037, 0163, 0238
Vestel	0037, 0217
Videologic	0216, 0218
Videosat	0247
Videotechnic	0217, 0320
Videoton	0431
Vision	0217, 0320
Vistar	0206
Voxson	0163, 0418
Waltham	0037, 0109, 0217, 0418, 0431
Watson	0009, 0037, 0213, 0218, 0320
Watt Radio	0102, 0213, 0216
Wega	0036, 0037
Wegavox	0009
Weltblick	0320
White Westinghouse	0037, 0216, 0320
Windstar	0282
Xrypton	0037
Yamishi	0217, 0282, 0455
Yokan	0037
Yoko	009, 0037, 0217, 0218, 0264, 0431
Zanussi	0206, 0217
sinu	0102

VCR (1/7)

Manufacturer	Code
ASA	0037, 0081
AVP	0352
Adelsound	0004
Adventura	0000
Adyson	0072
Aiwa	0000, 0037, 0209, 0307, 0348, 0352
Akai	0020, 0041, 0053, 0106, 0315
Akiba	0072
Akura	0072
Alba	0000, 0020, 0072, 0209, 0278, 0315, 0348, 0352
Allstar	0081, 0322
Ambassador	0020
Amstrad	0000, 0072, 0278, 0325, 0332
Anitech	0072, 0322
Ansonic	0004
Aristona	0081
Asha	0240
Asuka	0037

VCR (2/7)

Manufacturer	Code
AudioTon	0020
Audiosonic	0278
Baird	0000, 0041, 0104, 0107
Basic Line	0020, 0072, 0278
Beaumark	0240
Bestar	0278
Blaupunkt	0003, 0006, 0016, 0034, 0081, 0154, 0162, 0195, 0226, 0227, 0403
Blue Sky	0278
Bondstec	0020, 0072
Bosch	0154
Brandt	0041, 0187, 0206, 0320, 0321
Brandt Electronic	0041
Broksonic	0209
Bush	0072, 0209, 0278, 0315, 0348, 0352
CGE	0000
Calix	0037
Carena	0209
Carrefour	0045
Cathay	0278
Catron	0020
Cimline	0072
Cineral	0278
Citizen	0037, 0278
Clatronic	0020
Colt	0072
Combitech	0352
Condor	0020, 0278
Craig	0037, 0047, 0072
Crown	0020, 0072, 0278, 0322
Curtis Mathes	0162
Cybernex	0240
Cyrus	0081
Daewoo	0020, 0278
Dansai	0072, 0278
De Graaf	0042, 0046, 0048, 0081, 0104, 0166
Decca	0000, 0008, 0067, 0081, 0209
Denon	0042
Diamant	0037
Domland	0209
Dual	0041, 0081, 0278
Dumont	0000, 0081, 0104
ESC	0020, 0240, 0278
Elbe	0038, 0278
Elcatech	0072
Electrohome	0037
Electrophonic	0037
Elin	0240
Elsay	0072
Elta	0072, 0278
Emerex	0032
Emerson	0000, 0036, 0037, 0043, 0045, 0072, 0209, 0278
Europhon	0020
Ferguson	0000, 0041, 0053, 0107, 0320, 0321

VCR (3/7)

Manufacturer	Code
Fidelity	0000, 0072
Finlandia	0000, 0042, 0048, 0081, 0104, 0166
Finlux	0000, 0042, 0081, 0104
Firstline	0037, 0043, 0045, 0072, 0088, 0209, 0348
Fisher	0020, 0046, 0047, 0054, 0104
Flint	0209
Frontech	0020, 0322
Fuji	0033
Funai	0000
GE	0048, 0240
GEC	0081
Galaxis	0278
General	0020
General Technic	0348
Genexxa	0104
GoldHand	0072
GoldStar	0037, 0038, 0225
Goodmans	0000, 0020, 0037, 0072, 0081, 0278, 0403
Gradiente	0008
Graetz	0005, 0041, 0104, 0240
Granada	0000, 0006, 0037, 0042, 0046, 0048, 0081, 0104, 0226, 0235, 0240
Grandin	0000, 0037, 0072, 0278
Grundig	0003, 0006, 0007, 0016, 0072, 0081, 0195, 0207, 0226, 0320, 0347, 0349, 0403
HCM	0072, 0322
HI-Q	0047
Hanimex	0352
Hanseatic	0037, 0209
Hantor	0020
Harley Davidson	0000
Harwood	0072
Headquarter	0046
Hinari	0004, 0041, 0072, 0088, 0240, 0278, 0322, 0352
Hisawa	0352
Hischito	0045
Hitachi	0000, 0004, 0041, 0042, 0081, 0166, 0235, 0240
Hornyphone	0081
Hypson	0072, 0209, 0278
IR	0004, 0006, 0020, 0041, 0042, 0045, 0047, 0053, 0072, 0081, 0104, 0106, 0107, 0154, 0187, 0209, 0226, 0235, 0240, 0322, 0348

VCR (4/7)

Manufacturer	Code
ITT	0005, 0041, 0046, 0104, 0106, 0240, 0384
ITV	0020, 0037, 0278
Imperial	0000
Ingersol	0004, 0209, 0240
Inno Hit	0072, 0240
Interfunk	0081, 0104
Intervision	0000, 0037, 0209, 0278
Irradio	0072, 0081
JVC	0008, 0041, 0067, 0206, 0207, 0384, 0486
KLH	0072
Kaisui	0072
Kendo	0072, 0106, 0209, 0315
Kenwood	0041, 0046, 0067, 0384
Kimari	0047
Kneissel	0352
Kodak	0037
Korpel	0072
Kuba Electronic	0047
Kyoto	0072
Lenco	0278
Leyco	0072
Lloyd's	0000
Loewe	0004, 0006, 0037, 0081, 0162
Logik	0004, 0106, 0209, 0240
Luxor	0043, 0046, 0047, 0048, 0072, 0104, 0106
M Electronic	0000, 0037, 0038
MGA	0240
Magnasonic	0278
Magnavox	0000, 0081
Magnin	0240
Manesth	0045, 0072, 0081, 0209
Marantz	0003, 0006, 0081, 0209
Marquant	0322
Matsui	0000, 0004, 0036, 0088, 0209, 0240, 0332, 0348, 0352
Memorex	0000, 0037, 0046, 0048, 0104,0162, 0240
Memphis	0072
Metz	0003, 0006, 0037, 0081, 0162, 0195, 0227, 0347
Minerva	0006, 0016, 0195
Minolta	0042
Mitsubishi	0043, 0048, 0067, 0081
Motorola	0048
Multitech	0000, 0020, 0072
Murphy	0000
NEC	0038, 0041, 0067
Neckermann	0081

VCR (5/7)

Manufacturer	Code
Nesco	0072
Nikkai	0020, 0072, 0278
Nokia	0041, 0046, 0048, 0104, 0106, 0240, 0278
Nordmende	0041, 0207, 0297, 0320, 0321, 0384
Nordmende	0041, 0207, 0297, 0320, 0321, 0384
Oceanic	0000, 0041, 0046, 0048, 0081, 0104, 0106
Okano	0072, 0315, 0348
Olympus	0226
Optimus	0037, 0048
Orion	0004, 0036, 0088, 0209, 0348, 0352
Osaki	0000, 0037, 0072
Otake	0209
Otto Versand	0081
Palladium	0004, 0006, 0037, 0041, 0072, 0209, 0240
Panasonic	0162, 0225, 0226, 0227
Pathe Cinema	0004, 0036, 0043
Pathe Marconi	0041
Penney	0037, 0042, 0054, 0240
Pentax	0042
Perdio	0000, 0209
Philco	0038, 0072, 0209
Philips	0006, 0081, 0384, 0403
Phonola	0081
Pioneer	0042, 0058, 0067, 0081, 0168, 0235
Portland	0020, 0278
Precision	0058
Prinz	0088
Pro Vision	0278
Profex	0322
Profitronic	0081, 0240
Proline	0000
Prosonic	0278
Protec	0072
Pye	0081
Quarter	0046
Quartz	0046
Quasar	0162, 0278
Quelle	0081
RCA	0042, 0048, 0240
RFT	0072, 0403
Radialva	0037, 0048
Radiola	0081
Radix	0037
Randex	0037
Realistic	0000, 0037, 0048, 0104
Rex	0041, 0384
Roadstar	0037, 0072, 0240, 0278
Royal	0322
SBR	0081

VCR (6/7)

Manufacturer	Code
SEG	0072, 0240, 0278, 0322
SEI	0004, 0081
Saba	0041, 0187, 0206, 0207, 0297, 0320, 0321, 0384
Saisho	0004, 0036, 0088, 0209, 0348
Salora	0043, 0046, 0104, 0106
Samsung	0240, 0432
Sanky	0048
Sansui	0000, 0041, 0067, 0106
Sanwa	0004
Sanyo	0046, 0047, 0048, 0104, 0240
Saville	0240, 0278, 0352
Schaub Lorenz	0000, 0005, 0041, 0104, 0106
Schneider	0000, 0037, 0042, 0072, 0081, 0240, 0278
Scott	0043
Sears	0000, 0037, 0042, 0046, 0047, 0054, 0104
Seleco	0020, 0037, 0041, 0384
Semp	0045
Sentra	0020, 0072
Sharp	0048
Shintom	0072, 0104
Shivaki	0037
Shogun	0240
Shorai	0004, 0088
Siemens	0003, 0006, 0007, 0016, 0037, 0054, 0081, 0104, 0195, 0347
Siera	0081
Silva	0037
Singer	0045, 0072
Sinudyne	0004, 0081, 0209
Solavox	0020
Sonneclair	0072
Sonolor	0046
Sontec	0037, 0278
Sony	0000, 0011, 0032, 0033, 0034, 0106
Soundwave	0037, 0209
Ssangyong	0072
Stern	0278
Sunkai	0209, 0348
Sunstar	0000
Suntronic	0000
Sunwood	0072
Supra	0037
Sylvania	0081
Symphonic	0000
TMK	0036, 0240
Taisho	0004, 0088, 0209
Tandberg	0278
Tashiko	0000, 0037, 0048, 0081, 0240

VCR (7/7)

Manufacturer	Code
Tatung	0000, 0041, 0043, 0048, 0053, 0081, 0209
Teac	0000, 0041
Tec	0020, 0072, 0278
Tech Line	0072
Technics	0162, 0226
Teleavia	0041
Telefunken	0041, 0187, 0320, 0321, 0384
Teletech	0072
Tenosal	0072
Tensai	0000, 0004, 0072, 0322
Thom	0321
Thomas	0000
Thomson	0041, 0067, 0278, 0320, 0321, 0384
Thorn	0036, 0037, 0041, 0104
Tokai	0072
Toshiba	0041, 0043, 0045, 0081, 0384
Totevision	0240
Towada	0322
Uher	0240
Ultravox	0278
Unitech	0240
Universum	0000, 0003, 0006, 0016, 0037, 0081, 0106, 0195, 0240, 0322, 0325, 0348
Vector	0045
Video Concepts	0045
Wards	0048
Watson	0081
XR-1000	0000, 0072
Yamaha	0041
Yamishi	0072, 0278
Yokan	0072
Yoko	0020, 0240
Zenith	0000, 0033, 0034

DVD PLAYER

Manufacturer	Code
Akai	0611
Denon	0490
JVC	0558
Magnavox	0503
Onkyo	0612
Panasonic	0490, 0632
Philips	0503, 0539
Pioneer	0525, 0571, 0631 0632
Samsung	0573
Sony	0533
Thomson	0551
Toshiba	0503
Yamaha	0545
Zenith	0503

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
The power does not turn ON.	• The power plug is disconnected. • The protection circuit may have been activated.	• Connect the power plug to the wall outlet. • Plug in again. If it still doesn't work call a service center.
The unit does not respond when the buttons are pressed.	• Static electricity caused by dry air.	• Disconnect the power plug from the outlet, and insert again.
No sound is output when a function is selected.	• Improper connections. • Sound is muted. • The volume is turned down. • The TAPE 2 MONITOR is ON. • Speakers are turned OFF. • DIGITAL/ANALOG switch is set incorrectly.	• Make sure the component is connected correctly (see p. 12 – 21). • Press MUTE on the remote control. • Adjust MASTER VOLUME. • Press the TAPE 2 MONITOR button. • Press SPEAKERS (A/B) to select the speakers you connected. • Set SIGNAL SELECT (see p. 51).
No image is output when a function is selected.	• Improper connections. • The input source is not properly selected.	• Make sure the component is connected correctly (see p. 14 – 17). • Press the correct function button.
Considerable noise in radio broadcasts.	• Incorrect frequency. • The antenna is not connected. • DD RF and/or digital cables are near the antenna terminals and wires.	• Tune in the correct frequency. • Connect the antenna (see p. 18). • Route DD RF and digital cables away from the antenna terminals and wires.
	FM broadcasts • The FM antenna is not fully extended or is poorly positioned. • Weak radio signals.	• Fully extend the FM wire antenna, position for best reception, and secure to a wall. • Connect an outdoor FM antenna (see p. 18).
	AM broadcasts • The AM antenna is poorly positioned. • Weak radio signals. • Interference caused by other equipment (fluorescent lamp, motor, etc.).	• Adjust the direction and position for best reception. • Connect an additional internal or external AM antenna (see p. 18). • Turn off the equipment causing the noise or move it away from the receiver. • Place the antenna farther away from the equipment causing the noise.
Broadcast stations cannot be selected automatically.	• Weak radio signals.	• Connect an outdoor antenna (see p. 18).
Subwoofer output is very low.	• Settings route signal away from Sub woofer.	• To get more signal to the subwoofer set it to PLUS or choose SMALL for the FRONT speakers (see p. 36 – 37).
When playing an LD the SIGNAL SELECT is on DD RF but there is still no sound.	• The LD is not a Dolby Digital compatible disc.	• Set the SIGNAL SELECT to analog (make sure your LD player is hooked up with analog connections in addition to digital and DD RF connections, see p. 14).
When playing a DTS source the 5.1 Channel indicator doesn't light.	• The DTS source is not 5 channels.	• There is no problem with the receiver but if you want 5 channel sound you must play a 5 channel source.

Techno Tidbits & Problem-solving

Symptom	Cause	Remedy
No sound from surround or center speakers.	• Speaker settings are incorrect. • The rear and/or center levels are turned down. • The surround and/or center speakers are disconnected.	• See "SPEAKER SETTING" on p. 36 – 37 to check the speaker settings. • See "CHANNEL LEVEL" p. 39 – 40 to check the speaker levels. • Connect the speakers (see p. 4, 19).
Sound is produced from some components, but not from digital components.	• SIGNAL SELECT is set incorrectly. • The digital inputs are assigned incorrectly, or not at all.	• Set SIGNAL SELECT to "AUTO" or according to the type of connections made (see p. 51). • Set the digital input settings correctly (see p. 33).
No sound is output or a noise is output when software with DTS is played back.	• SIGNAL SELECT is set to "ANALOG". • A DVD player not compatible with DTS is used, or the setting of the DVD player is incorrect. • The digital output level has been turned down on a CD player or other component equipped with digital output level adjustment capability. (The DTS signal has been altered by the player, and cannot be read.) • The speakers are turned OFF.	• Make digital connections (see p. 13 &14) and set SIGNAL SELECT to "AUTO" (see p. 51). • Refer to the instruction manual supplied with the DVD player. • Set the digital volume level of the player to full, or to the neutral position. • Turn the speakers ON.
The sound is output intermittently when software with DTS is played back.	• Disc being played back has a huge amount of information on it.	• Use the STANDARD mode to get the best results (see p.44).
When a search is performed by a DTS compatible CD player during playback, noise is output.	• The search function performed by the player interferes with the reading of digital information.	• This is not a malfunction, but be sure to turn the volume down to prevent the output of loud noise from your speakers.
Cannot be remote controlled.	• The remote control batteries have worn out. • Too far away or bad angle of operation. • There is an obstacle between the receiver and the remote control. • Strong light such as fluorescent light is shining onto the unit's remote control signal light-receiving window. • A cord is connected to the CONTROL IN terminal on this unit.	• Replace the batteries (see p. 10). • Operate within 7 m, 30° of the remote sensor on the front panel (see p. 11). • Remove the obstacle or operate from another position. • Avoid exposing the remote sensor on the front panel to direct light. • Connect cord to the correct jack.
The display is dark.	• The FL DIMMER button is pushed.	•Press FL DIMMER on the front panel repeatedly to return to the default setting (see p. 56).
The OVER indicator is constantly lit.	• If you are using an analog source, the signal is too strong.	• Press the INPUT ATT button (see p. 25, #8 and p.28, #15).
When playing a DTS format LD there is noise audible on the soundtrack.	• If you are using a digital source, there is too much information for the receiver to handle. • The SIGNAL SELECT is on ANALOG.	• For DD/DTS sources put the receiver in STANDARD mode (see p. 47). • Set the SIGNAL SELECT to DIGITAL.

Symptom	Cause	Remedy
You can't get DIGITAL to come up when using the SIGNAL SELECT button.	• Either the digital connections or the DIGITAL INPUT ASIGNMENTS are incorrect. • The MONITOR mode is ON.	• Make sure the digintal connections and the DIGITAL INPUT ASIGNMENTS are doner correctly. • Press the MONITOR button so it goes into the OFF setting.
When using THX AUTO mode the receiver is not playing in the EX or ES mode.	• You are not using an EX or ES source.	• There is no problem with your receiver but if you want to hear 7 channel sound switch to Surround EX mode.
The DTS indicator doesn't light up even when playing a DTS source.	• The player is paused or stopped. • There is a mistake in the player settings for audio output. • Although it's a DTS source there is a possibility the present trrack is not DTS.	• Play the source. • Fix the audio settings (check the manual that came with your DVD player). • There is no problem. The indicator won't light when the track is not a DTS track.

If the unit does not operate normally due to external effects such as static electricity

Disconnect the power plug from the outlet and insert again to return to normal operating conditions.

Specifications

Amplifier Section

Continuous Power Output (STEREO MODE)
FRONT ..... 100 W + 100 W (DIN 1 kHz, THD 1 %, 8Ω)
Continuous Power Output (SURROUND MODE)
FRONT ..... 100 W + 100 W (DIN 1 kHz, THD 1 %, 8Ω)
CENTER ..... 100 W (DIN 1 kHz, THD 1 %, 8Ω)
SURROUND ..... 100 W + 100 W (DIN 1 kHz, THD 1 %, 8Ω)
Rated Power Output ..... 100 W + 100 W (20 Hz – 20 kHz, THD 0.09 %, 8Ω)

- *Above specifications are applicable when the power supply is 230V.*

Input (Sensitivity/Impedance)
PHONO MM (VSX-859RDS only) ..... 4.7 mV/47 kΩ
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2 ..... 335 mV/47 kΩ
Phono Overload level (THD 0.1 %, 1kHz)
PHONO MM (VSX-859RDS only) ..... 120 mV
Frequency Response
PHONO MM (VSX-859RDS only) ..... 20 Hz to 20,000 Hz ± 0.3 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2 ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
VCR 1/DVR REC, VCR 2 REC, CD-R/TAPE 1/MD REC, TAPE 2 REC ..... 335 mV/2.2 kΩ
Tone Control
BASS ..... ± 6 dB (100 Hz)
TREBLE ..... ± 6 dB (10 kHz)
LOUDNESS ..... +10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)
PHONO MM (VSX-859RDS only) ..... 80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2, MULTI CH IN ..... 97 dB
Signal-to-Noise Ratio
[DIN (Continuous rated power output/50 mW)]
PHONO MM (VSX-859RDS only) ..... 68/61 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2 ..... 92/65 dB

VIDEO Section (S jack)

Input (Sensitivity/Impedance)
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT
Luminance signal (Y) ..... 1 Vp-p/75 Ω
Chrominance signal (C) ..... 0.286 Vp-p/75 Ω
Output (Level/Impedance)
VCR 1/DVR, VCR 2, MONITOR OUT
Luminance signal (Y) ..... 1 Vp-p/75 Ω
Chrominance signal (C) ..... 0.286 Vp-p/75 Ω
Frequency Response
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT
Luminance signal (Y) ..... 5 Hz to 10 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio
Luminance signal (Y) ..... 65 dB

Component Video Section (VSX-859RDS only)

Input (Sensitivity)
Y ..... 1 Vp-p/75 Ω
P_B/P_R ..... 0.7 V/75 Ω
Output (Level/Impedance)
Y ..... 1 Vp-p/75 Ω
P_B/P_R ..... 0.7 V/75 Ω
Frequency Response
Y ..... 5 Hz to 20 MHz $^{+0}_{-3}$ dB
P_B/P_R ..... 5 Hz to 13 MHz $^{+0}_{-3}$ dB

VIDEO Section (Composite)

Input (Sensitivity/Impedance)
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR 1/DVR, VCR 2, MONITOR OUT, MONITOR OUT2 ..... 1 Vp-p/75 Ω
Frequency Response
VCR 1/DVR, VCR 2, TV/SAT, DVD/LD
VIDEO→MONITOR OUT, ... 5 Hz to 10 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio ..... 65 dB

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono: 15.2 dBf, IHF (1.6 µV/75 Ω)
50 dB Quieting Sensitivity ..... Mono: 20.2 dBf
Stereo: 41.2 dBf
Signal-to-Noise Ratio ..... Mono: 76 dB (at 85 dBf)
Stereo: 72 dB (at 85 dBf)
Distortion ..... Stereo: 0.6 % (1 kHz)
Alternate Channel Selectivity ..... 70 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (± 1 dB)
Antenna Input ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Selectivity ..... 30 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements
UK model ..... AC 230 V, 50/60 Hz
European model ..... AC 220 - 230 V, 50/60 Hz
Power Consumption ..... 400 W
Power Consumption in Standby mode ..... 1.0 W
AC Outlets (except for the UK model)
SWITCHED (×2) ..... Total 100 W MAX.
Dimensions ..... 420 (W) × 173 (H) × 463 (D) mm
Weight (without package)
VSX-859RDS ..... 17.6 kg
VSX-839RDS ..... 16.2 kg

Furnished Parts

FM Wire Antenna 1
AM Loop Antenna 1
Dry Cell Batteries (SIZE "AA" (IEC LR6)) 2
Remote Control Unit 1
Operating Instructions 1

NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.

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